

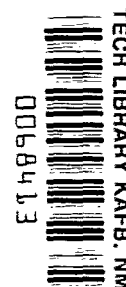
NASA TECHNICAL
REPORT



NASA TR R-288

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TEMPERATURE, PRESSURE, DENSITY,
AND WIND MEASUREMENTS IN THE
STRATOSPHERE AND MESOSPHERE, 1966

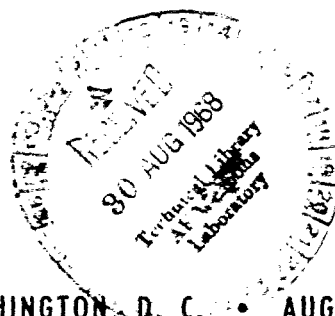
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by

W. S. Smith, J. S. Theon, P. C. Swartz, L. B. Katchen
Goddard Space Flight Center

and

J. J. Horvath
University of Michigan



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION • WASHINGTON, D. C. • AUGUST 1968



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IN THE STRATOSPHERE AND MESOSPHERE, 1966

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Goddard Space Flight Center
Greenbelt, Md.

and

J. J. Horvath

University of Michigan
Ann Arbor, Mich.

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ABSTRACT

Complete data are presented from a total of 43 rocket-borne experiments conducted at Wallops Island, Virginia; Churchill, Canada; Barrow, Alaska; Natal, Brazil; and Ascension Island in the South Atlantic Ocean during 1966. Temperature, pressure, density, and wind profiles from 39 grenade experiments, and temperature, pressure, and density profiles from four pitot-static tube experiments covering the altitude range of approximately 30 to 90 kilometers have been compiled. No attempt has been made to analyze the meteorological significance of these data in this report. Error analyses are included for the results of each of the 39 grenade experiments.

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INTRODUCTION

During 1966, 43 rocket grenade and pitot-static tube experiments were performed by the Goddard Space Flight Center and the University of Michigan. These soundings were conducted at Barrow, Alaska (71°N); Churchill, Canada (59°N); Wallops Island, Virginia (38°N); Natal, Brazil (6°S); and Ascension Island (8°S). This report presents the data obtained from these soundings; however, no analysis of the meteorological significance of the data has been included here. This report is a record of the unsmoothed measurements which may serve as a basis for further investigation and interpretation of the structure of the upper atmosphere.

The objectives of this program are to obtain a sample of the structure of the mesosphere and lower thermosphere which is as representative of these regions as possible, and to investigate specific phenomena which occur in these regions. In order to extend the coverage over the widest possible geographic area and to permit more accurate analyses, the GSFC soundings are coordinated with soundings in other parts of the world whenever possible.

EXPERIMENTAL METHODS

The grenade experiment and the pitot-static tube experiment are two of several techniques employed in the GSFC Meteorological Sounding Rocket Program. The experiments are described only briefly here since the details of the instrumentation and data reduction have been published (References 1, 2, and 3).

In the grenade experiment, 1, 2, and 3-pound explosive charges (grenades) are carried aloft in the nose cone of a Nike-Cajun sounding rocket. The grenades are ejected and exploded at 2 to 5-km intervals as the rocket ascends. The current payload carries 19 grenades, permitting an

average vertical resolution in the data of approximately 3 km. The rocket position and the exact position of each explosion are determined by a Doppler tracking system, a precision radar such as the AN/FPS-16, or both. The time of each explosion is detected by sensors in the payload and telemetered to the ground. A ground-based array of hot-wire microphones capable of responding to frequencies in the 4-hertz range is used to detect and record the sound waves generated by the exploding grenades. The measured experimental parameters are the times and positions of the grenade explosions, and the arrival times of the sound waves at the ground-based microphones.

Elevation and azimuth angles of the normal to each arriving sound wave are computed by applying a least-squares-fit to the arrival times at the various microphones. Each wave is then analytically traced along its path of propagation through the atmosphere by means of Snell's law. Data from balloonsondes and rocketsondes obtained near the time of the grenade sounding are utilized to account for the influence of wind and temperature in retracing the path of the sound wave from the ground to the first explosion; above this altitude, the results of the experiment itself are used for each succeeding explosion. The position of the wave as determined by tracing is compared with the known position of the wave source, the grenade explosion. The amount by which the sound wave has been displaced horizontally from one explosion to the next is a measure of the average wind velocity vector in the layer between the two adjacent explosions. The average speed of sound and hence the average temperature of the atmosphere between two adjacent explosions may also be determined. The temperature profile consists of discrete points, each of which represents the average temperature for the vertical layer between consecutive explosions. The temperature profile is used to derive the pressure and density profiles, using the pressure measured by the accompanying balloonsonde near the top of its ascent. Pressure is calculated from the barometric equation by performing an integration over the temperature profile starting with the known balloonsonde pressure (References 4, 5, and 6). The density is then computed from the temperature and pressure, using the equation of state.

In the pitot-static tube experiment, two radioactive ionization gages in the payload measure ambient density and pressure as the Nike-Apache rocket ascends. The gage measurements are telemetered to ground-based receiving and recording equipment. The rocket trajectory is provided by Doppler tracking, radar tracking, or both, to determine the altitude of the measurements and the velocity of the rocket. The measured experimental parameters are ram pressure, static pressure, and velocity and position of the payload in space. The ram pressure is related to density by the Rayleigh equation and the equation of state in the continuum region, and by a modified thermal transpiration equation in the free-molecular flow region. The temperature profile is computed from the pressure and density profiles with the equation of state, or by integrating the density profile using a form of the hydrostatic equation.

RESULTS

The launch sites of Barrow, Alaska (71°N); Churchill, Canada (59°N); Wallops Island, Virginia (38°N); and Natal, Brazil (6°S) — Ascension Island (8°S) were chosen because they are typical arctic, sub-arctic, temperate, and tropical locations, respectively. Table 1 summarizes the date,

Table 1
Summary of Soundings.

Figure	Date	Time (GMT)	Location	Experiment
1	24 January	0542	Churchill	grenade
2	1 February	2012	Barrow	grenade
3	1 February	2046	Wallops	grenade
4	2 February	0202	Churchill	grenade
5	10 February	0710	Churchill	grenade
6	10 February	0749	Wallops	grenade
7	10 February	0800	Barrow	grenade
8	10 February	1800	Churchill	grenade
9	10 February	1841	Wallops	grenade
10	10 February	2130	Barrow	grenade
11	27 February	1652	Ascension	pitot
12	1 May	2210	Barrow	grenade
13	2 May	0114	Wallops	grenade
14	2 May	0119	Natal	grenade
15	2 May	0232	Churchill	grenade
16	3 May	2201	Barrow	grenade
17	4 May	0008	Churchill	grenade
18	4 May	0037	Wallops	grenade
19	4 May	0120	Natal	grenade
20	17 June	0313	Churchill	grenade
21	17 June	0318	Barrow	grenade
22	23 June	0635	Churchill	grenade
23	23 June	0752	Barrow	grenade
24	7 August	0700	Wallops	grenade
25	7 August	0705	Natal	grenade
26	7 August	0904	Churchill	grenade
27	7 August	0949	Churchill	pitot
28	7 August	1735	Churchill	grenade
29	7 August	2046	Wallops	grenade
30	7 August	2326	Natal	grenade
31	14 August	2035	Barrow	grenade
32	15 August	0808	Barrow	grenade
33	26 August	1911	Wallops	pitot
34	28 August	0423	Wallops	pitot
35	30 September	1735	Wallops	grenade
36	30 September	2350	Wallops	grenade
37	1 October	0530	Wallops	grenade
38	1 October	0823	Natal	grenade
39	1 October	1128	Wallops	grenade
40	1 October	2039	Natal	grenade
41	2 October	0220	Natal	grenade
42	2 October	0820	Natal	grenade
43	2 October	1409	Natal	grenade

time, and location of each of the 39 grenade experiments and the four pitot-static tube experiments conducted during 1966. The data include two quasi-synoptic series involving launches from four sites, five series involving launches from three sites, three series where two sites were coordinated, and three series where two or more rockets were launched from a single site during a 12-hour period to determine the diurnal effects in the atmosphere.

The results of the soundings are given in Figures 1 through 43. In the grenade experiment results, the directly measured parameters (temperature and wind) are tabulated in computer printout form on the left-hand page. Tables of interpolated temperature, computed pressure, computed density, percentage of pressure deviation from the 1962 U. S. Standard Atmosphere (Reference 7), and percentage of density deviation from the 1962 U. S. Standard Atmosphere are tabulated on the right-hand page as functions of geometric altitude. The winds interpolated at 5-km intervals are tabulated in component form also. The pitot-static tube results give measured pressure and density, derived temperature, and the percentage of deviation of these parameters from the 1962 Standard Atmosphere values as functions of geometric altitude. Balloonsonde and rocketsonde observations which accompanied the experiments are plotted with the appropriate temperature and wind profile to complete the vertical structure (References 5 and 6).

ERROR ANALYSIS

An error analysis has been performed for all grenade temperatures and winds reported herein when the data recovery was redundant. In a few instances, data recovery was sufficient to produce a solution, but insufficient to permit an error analysis. The error analysis is based on a study (Reference 8) which demonstrated that more than 90 percent of the experimental error is caused by the inaccuracy in the determination of the sound arrival times at the various microphones, which produces errors in the computed azimuth and zenith angles of the normal to the sound wave. Thus, by treating only azimuth and zenith errors, a good approximation of the total error was obtained.

The problem of obtaining the wind and temperature errors was then performed in two parts. Separate calculations were made, first for the even-numbered layers between grenades, and then for the odd-numbered layers. For each layer, a single azimuth and zenith deviation was computed from the formulas

$$\sigma_{az} = \sqrt{\sigma_{azU}^2 + \sigma_{azL}^2}$$

and

$$\sigma_{zen} = \sqrt{\sigma_{zenU}^2 + \sigma_{zenL}^2},$$

where the subscripts U and L indicate the azimuth and zenith deviations for the upper and lower grenades bounding a given layer. The calculation is divided into two sections so that the deviations of one layer will not influence the temperature and wind of any other layer significantly.

The error for a given temperature point was computed from the formula

$$\text{Temperature error} = \sqrt{(\Delta T_{az})^2 + (\Delta T_{zen})^2}.$$

where ΔT_{az} is the change in temperature induced by the azimuth deviation alone, and ΔT_{zen} is the change in temperature caused by the zenith deviation alone. A similar formula is applied for the wind error.

ACKNOWLEDGMENTS

The authors gratefully acknowledge the contributions of the New Mexico State University for the operation of the Doppler Tracking System, the NASA Wallops Station, the Rocket Research Range at Churchill, the Arctic Research Laboratory at Barrow, the Brazilian Space Agency, and the Eastern Test Range at Ascension for the excellent range support they provided.

Goddard Space Flight Center
National Aeronautics and Space Administration
Greenbelt, Maryland.
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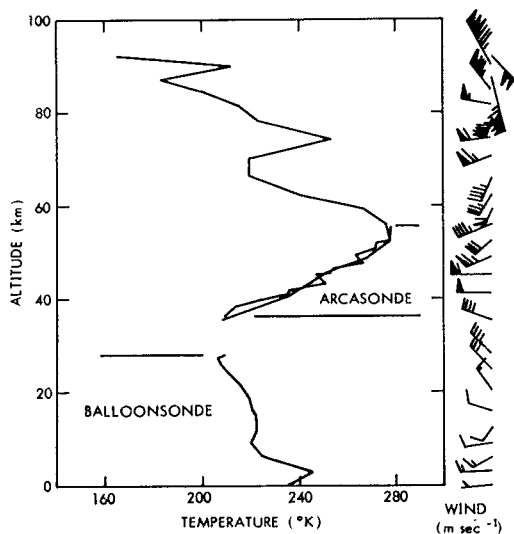
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FIGURE 1

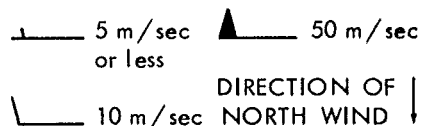
CHURCHILL, 24 JANUARY 1966, 0542 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
292.36	39.37	2.67	208.52	1.00	35310.35
271.29	50.89	3.16	237.05	1.03	41092.10
271.72	60.88	7.49	251.10	2.65	45445.60
252.08	64.53	9.07	267.69	3.26	49073.50
239.69	68.13	8.30	277.58	2.99	52599.70
251.26	43.88	7.40	276.28	2.74	56028.55
209.74	61.12	7.37	266.70	2.50	59382.55
224.00	34.72	8.87	241.50	2.71	62654.35
216.90	46.73	11.23	219.53	3.06	66330.79
259.27	64.56	12.37	218.86	3.40	70399.80
264.79	62.14	13.44	253.87	4.50	74308.44
189.87	83.81	19.36	223.54	5.93	78070.69
279.04	56.78	15.56	215.09	4.84	81697.05
322.51	85.26	33.63	200.45	10.37	84738.74
169.63	164.57	39.30	182.93	9.69	87229.80
328.73	185.13	28.64	212.45	8.52	89632.55
140.15	101.19	28.70	165.26	6.46	91970.64



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
40000.00	-3.76	48.14
45000.00	-1.75	59.83
50000.00	23.67	60.71
55000.00	20.18	46.73
60000.00	47.76	29.15
65000.00	32.87	26.63
70000.00	14.51	59.95
75000.00	19.77	53.14
80000.00	33.89	36.55
85000.00	-43.57	43.34
90000.00	-121.15	70.80

LEGEND



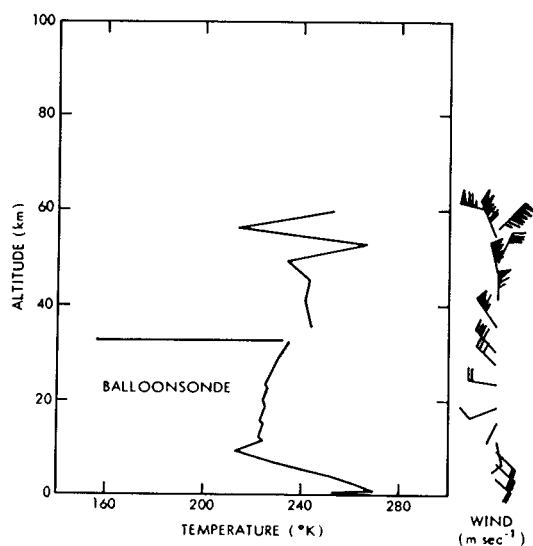
HEIGHT meters	PRESSURE nt./sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
28000.00	.1397000	04 .2330902	01- 208.80	13.56-	7.04-
29000.00	.1187595	04 .1981860	01- 208.76	14.58-	7.72-
30000.00	.1009591	04 .1685121	01- 208.72	15.65-	8.46-
31000.00	.8582984	03 .1432858	01- 208.68	16.77-	9.26-
32000.00	.7296865	03 .1218373	01- 208.64	17.92-	10.11-
33000.00	.6203525	03 .1036004	01- 208.61	19.15-	10.48-
34000.00	.5274070	03 .8809433	02- 208.57	20.50-	10.90-
35000.00	.4484035	03 .7491170	02- 208.53	21.96-	11.48-
36000.00	.3817564	03 .6275713	02- 211.92	23.42-	13.53-
37000.00	.3260467	03 .5237965	02- 216.85	24.74-	15.90-
38000.00	.2794701	03 .4383842	02- 221.72	25.89-	18.20-
39000.00	.2403722	03 .3603545	02- 226.72	26.89-	20.16-
40000.00	.2074253	03 .3113410	02- 231.65	27.76-	21.93-
41000.00	.1795594	03 .2644035	02- 236.50	28.50-	23.50-
42000.00	.1558363	03 .2252347	02- 239.97	29.15-	24.45-
43000.00	.1355158	03 .1941241	02- 243.20	29.76-	25.30-
44000.00	.1180674	03 .1669147	02- 246.43	30.34-	26.10-
45000.00	.1030545	03 .1438075	02- 249.65	30.88-	26.86-
46000.00	.9012051	02 .1238006	02- 253.63	31.37-	27.77-
47000.00	.7900533	02 .1065080	02- 258.20	31.80-	28.76-
48000.00	.6941734	02 .9203006	03- 262.78	32.14-	30.10-
49000.00	.6113169	02 .7965946	03- 267.35	32.32-	31.40-
50000.00	.5393290	02 .6851553	03- 270.29	32.30-	32.30-
51000.00	.4764672	02 .6078215	03- 273.00	32.37-	32.97-
52000.00	.4214818	02 .5322096	03- 275.90	32.26-	33.55-
53000.00	.3732148	02 .4686632	03- 277.43	32.08-	34.01-
54000.00	.3305704	02 .4156834	03- 277.05	31.82-	34.16-
55000.00	.2927604	02 .3686452	03- 276.66	31.52-	34.25-
56000.00	.2592418	02 .3268886	03- 276.28	31.15-	34.31-
57000.00	.2294089	02 .2922173	03- 273.50	30.77-	33.76-
58000.00	.2027597	02 .2600977	03- 270.64	30.41-	33.22-
59000.00	.1785785	02 .2328132	03- 267.79	30.07-	32.69-
60000.00	.1576685	02 .2096099	03- 261.94	29.80-	31.45-
61000.00	.1384394	02 .1897033	03- 254.23	29.69-	29.81-
62000.00	.1210750	02 .1710925	03- 246.53	29.70-	28.50-
63000.00	.1054617	02 .1534519	03- 239.43	30.04-	27.79-
64000.00	.9151590	01 .1365684	03- 233.45	30.10-	27.50-
65000.00	.7912628	01 .1211812	03- 227.48	30.87-	27.28-
66000.00	.6815274	01 .1071910	03- 221.50	31.44-	27.14-
67000.00	.5854426	01 .9295426	04- 219.41	32.02-	28.29-
68000.00	.5025323	01 .7984974	04- 219.25	32.50-	29.95-
69000.00	.4313369	01 .6858845	04- 219.09	32.80-	31.41-
70000.00	.3702027	01 .5801136	04- 218.92	32.93-	32.70-
71000.00	.3183122	01 .4945416	04- 224.23	32.77-	35.30-
72000.00	.2749966	01 .4108329	04- 233.19	32.10-	38.30-
73000.00	.2388995	01 .3437026	04- 242.15	30.84-	40.60-
74000.00	.2086131	01 .2894233	04- 251.11	28.98-	42.29-
75000.00	.1824803	01 .2560354	04- 248.29	26.72-	40.93-
76000.00	.1591513	01 .2307970	04- 240.23	24.37-	38.22-
77000.00	.1381641	01 .2073198	04- 232.17	22.05-	35.41-
78000.00	.1193519	01 .1855343	04- 224.11	19.77-	32.53-
79000.00	.1027421	01 .1616881	04- 221.37	17.42-	31.16-
80000.00	.8829565	00 .1404320	04- 219.04	14.82-	29.75-
81000.00	.7576121	00 .1217924	04- 216.71	12.11-	26.71-
82000.00	.6488410	00 .1058116	04- 213.63	9.40-	23.43-
83000.00	.5541041	00 .9244430	05- 208.81	7.06-	19.61-
84000.00	.4714853	00 .8051586	05- 204.00	4.92-	15.80-
85000.00	.3995663	00 .7008688	05- 198.61	3.13-	11.89-
86000.00	.3368522	00 .6125621	05- 191.57	1.83-	7.42-
87000.00	.2821885	00 .5327197	05- 184.54	1.13-	3.21-
88000.00	.2364975	00 .4282514	05- 192.39	.40-	6.47-
89000.00	.1999327	00 .3404053	05- 204.68	1.23	10.65-
90000.00	.1700174	00 .2888822	05- 205.03	3.43	8.87-
91000.00	.1433317	00 .2701332	05- 184.85	4.63	3.97

FIGURE 2

BARROW, 1 FEBRUARY 1966, 2012 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR* m/sec (±)	TEMPERATURE degrees Kelvin	ERROR* degrees Kelvin (±)	HEIGHT meters
328.98	63.32		243.87		35472.25
359.32	67.35		240.80		41309.05
357.19	128.37		242.91		45704.94
28.64	38.68		233.53		49368.75
335.43	142.18		266.94		52951.30
46.10	187.20		214.09		56424.75
282.36	76.73		252.07		59800.45

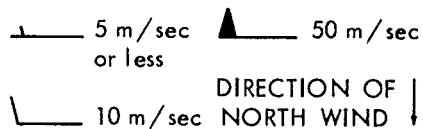
* Insufficient data for Error Analysis



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-64.40	7.81
45000.00	-118.44	5.33
50000.00	-50.75	-4.86
55000.00	-129.60	-55.29

LEGEND

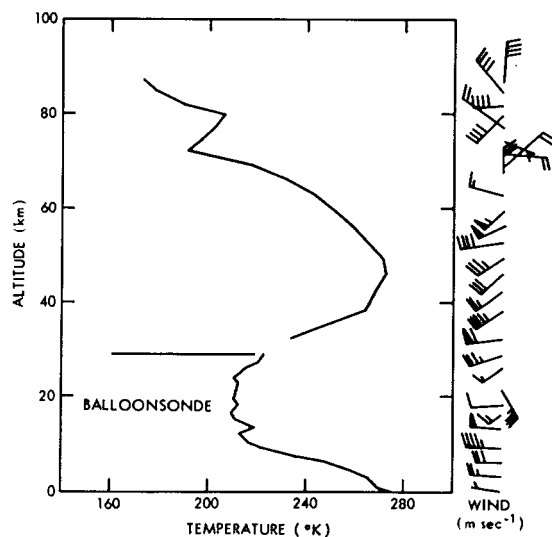


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
31000.00	.1048790	04	.1563933	01-	233.63	1.70	.06-
32000.00	.9077772	03	.1340523	01-	235.91	2.10	1.10-
33000.00	.7868553	03	.1150789	01-	238.20	2.54	.56-
34000.00	.6830043	03	.0893974	02-	240.49	2.95	.06
35000.00	.5936815	03	.8518957	02-	242.78	3.32	.65
36000.00	.5165235	03	.7387329	02-	243.59	3.61	1.78
37000.00	.4494480	03	.6441905	02-	243.06	3.73	3.31
38000.00	.3909819	03	.5616052	02-	242.54	3.67	4.64
39000.00	.3400331	03	.4894827	02-	242.01	3.41	5.72
40000.00	.2956472	03	.4265142	02-	241.49	2.96	6.74
41000.00	.2562880	03	.3715509	02-	240.96	2.33	7.40
42000.00	.2233724	03	.3227233	02-	241.13	1.54	7.76
43000.00	.1941979	03	.2800154	02-	241.61	.64	7.74
44000.00	.1688679	03	.2430381	02-	242.09	.35-	7.59
45000.00	.1469236	03	.2110123	02-	242.57	1.46-	7.31
46000.00	.1278233	03	.1838967	02-	242.15	2.67-	7.28
47000.00	.1111153	03	.1615676	02-	239.59	4.08-	7.96
48000.00	.9645020	02	.1417586	02-	237.03	5.71-	7.66
49000.00	.8359571	02	.1242073	02-	234.47	7.46-	6.81
50000.00	.7250951	02	.1055115	02-	233.41	9.11-	2.74
51000.00	.6315754	02	.8845783	03-	248.74	10.36-	2.46-
52000.00	.5529434	02	.7464641	03-	258.06	11.14-	6.80-
53000.00	.4862704	02	.6364088	03-	266.19	11.51-	10.40-
54000.00	.4268002	02	.5925637	03-	250.98	11.96-	6.14-
55000.00	.3717363	02	.5493046	03-	235.76	13.04-	2.94-
56000.00	.3207482	02	.5066574	03-	220.55	14.82-	1.81
57000.00	.2754151	02	.4350307	03-	220.56	16.89-	1.40-
58000.00	.2373608	02	.3567266	03-	231.81	18.53-	8.73-
59000.00	.2060204	02	.2712944	03-	243.96	19.50-	14.64-

FIGURE 3

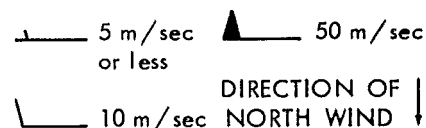
WALLOPS ISLAND, 1 FEB. 1966, 2046 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
260.22	61.13	.87	233.61	.60	32404.10
240.15	47.29	1.31	264.70	.81	38130.69
240.55	23.91	1.29	268.64	.77	42432.54
221.11	28.56	1.49	272.15	.73	46027.79
237.97	34.28	1.64	270.79	.76	49542.90
259.31	39.39	1.85	264.73	.75	52965.80
245.86	49.60	1.92	259.40	.77	56342.35
227.56	54.86	2.23	251.75	.77	59620.30
293.14	16.39	2.97	243.15	.93	62756.10
.79	30.12	3.66	231.57	1.09	65808.14
50.62	19.58	4.62	217.89	1.20	68778.39
97.39	17.66	3.83	191.14	1.09	71684.39
121.26	6.89	3.97	197.73	1.09	74491.04
306.28	18.21	6.31	202.37	1.82	77182.50
222.91	38.94	8.40	206.35	2.11	79820.35
265.71	41.35	6.47	189.49	1.62	82358.04
320.59	40.89	5.88	177.79	1.56	84778.99
3.69	37.80	8.88	173.07	2.11	87065.69



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
35000.00	16.34	51.52
40000.00	18.41	32.23
45000.00	18.72	19.36
50000.00	16.72	30.35
55000.00	15.12	42.65
60000.00	31.76	37.40
65000.00	-23.84	3.68
70000.00	-6.24	-16.13
75000.00	.86	-2.00
80000.00	26.72	27.55
85000.00	-32.18	23.21

LEGEND

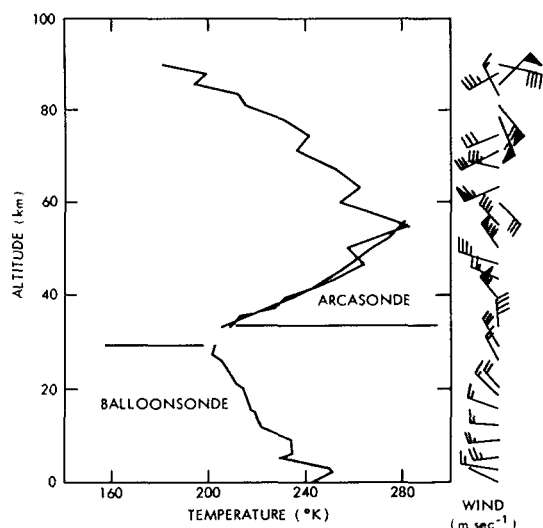


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)	
28000.00	.1478250	04	.2326836	01-	221.32	8.53-	7.20-
29000.00	.1269888	04	.1973990	01-	224.11	8.66-	8.09-
30000.00	.1092998	04	.1678138	01-	226.90	8.69-	8.84-
31000.00	.9425168	03	.1429526	01-	229.69	8.60-	9.47-
32000.00	.8142449	03	.1220159	01-	232.48	8.41-	9.98-
33000.00	.7050298	03	.1037044	01-	236.84	8.11-	10.39-
34000.00	.6122885	03	.8804520	02-	242.27	7.70-	10.95-
35000.00	.5334337	03	.7502534	02-	247.70	7.16-	11.35-
36000.00	.4661449	03	.6415566	02-	253.13	6.49-	11.60-
37000.00	.4085279	03	.5504552	02-	258.55	5.70-	11.72-
38000.00	.3590298	03	.4738145	02-	263.98	4.80-	11.71-
39000.00	.3160772	03	.4147629	02-	265.49	3.87-	10.35-
40000.00	.2784360	03	.3641120	02-	266.40	3.03-	8.87-
41000.00	.2453939	03	.3198021	02-	267.32	2.28-	7.47-
42000.00	.2163747	03	.2810201	02-	268.24	1.63-	6.16-
43000.00	.1908785	03	.2470304	02-	269.19	1.07-	4.94-
44000.00	.1684684	03	.2172391	02-	270.17	.60-	3.82-
45000.00	.1487622	03	.1911366	02-	271.14	.22-	2.79-
46000.00	.1314250	03	.1682545	02-	272.12	.06	1.84-
47000.00	.1161292	03	.1488640	02-	271.77	.24	.52-
48000.00	.1026001	03	.1317097	02-	271.38	.29	.02
49000.00	.9063474	02	.1165163	02-	270.99	.32	.20
50000.00	.8004205	02	.1032877	02-	269.97	.32	.58
51000.00	.7064452	02	.9176268	03-	268.20	.26	1.18
52000.00	.6230122	02	.8146300	03-	266.43	.11	1.70
53000.00	.5489954	02	.7226320	03-	264.67	.09-	1.73
54000.00	.4834041	02	.6401110	03-	263.09	.31-	1.38
55000.00	.4253405	02	.5666224	03-	261.51	.50-	1.04
56000.00	.3739765	02	.5012209	03-	259.94	.69-	.72
57000.00	.3285300	02	.4438544	03-	257.86	.86-	.59
58000.00	.2882970	02	.3930557	03-	255.53	1.05-	.56
59000.00	.2526984	02	.3476971	03-	253.19	1.26-	.50
60000.00	.2212254	02	.3074140	03-	250.70	1.50-	.48
61000.00	.1934102	02	.2717343	03-	247.96	1.78-	.53
62000.00	.1688470	02	.2398766	03-	245.22	2.09-	.23
63000.00	.1471739	02	.2116750	03-	242.22	2.37-	.39-
64000.00	.1280393	02	.1870858	03-	238.43	2.63-	.68-
65000.00	.1111486	02	.1650330	03-	234.63	2.89-	.97-
66000.00	.9626347	01	.1453794	03-	230.68	3.16-	1.19-
67000.00	.8315119	01	.1281342	03-	226.08	3.45-	1.16-
68000.00	.7161223	01	.1126469	03-	221.47	3.81-	1.17-
69000.00	.6146215	01	.9919980	04-	215.85	4.25-	.80-
70000.00	.5247016	01	.8846001	04-	206.64	4.95-	1.05
71000.00	.4447416	01	.7847601	04-	197.43	6.07-	2.66
72000.00	.3746367	01	.6802135	04-	191.87	7.50-	2.14
73000.00	.3151527	01	.5652921	04-	194.22	8.76-	2.31-
74000.00	.2656790	01	.4708576	04-	196.57	9.55-	6.11-
75000.00	.2244079	01	.3936452	04-	198.60	9.89-	9.19-
76000.00	.1898596	01	.3301726	04-	200.33	9.78-	11.62-
77000.00	.1608690	01	.2773669	04-	202.05	9.24-	13.59-
78000.00	.1364944	01	.2335538	04-	203.60	8.25-	15.07-
79000.00	.1159610	01	.1969627	04-	205.11	6.79-	16.15-
80000.00	.9858289	00	.1674110	04-	205.15	4.89-	16.25-
81000.00	.8358935	00	.1466976	04-	198.51	3.03-	11.73-
82000.00	.7048314	00	.1279773	04-	191.87	1.68-	7.39-
83000.00	.5911145	00	.1104865	04-	186.38	.86-	3.92-
84000.00	.4933331	00	.9466643	05-	181.55	.52-	1.00-
85000.00	.4098756	00	.8052501	05-	177.32	.63-	1.22
86000.00	.3394352	00	.6747134	05-	175.26	1.07-	1.96
87000.00	.2804898	00	.5641876	05-	173.20	1.73-	2.50

FIGURE 4

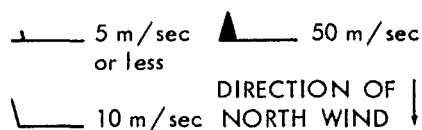
CHURCHILL, 2 FEBRUARY 1966, 0202 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
358.13	39.04	1.35	204.63	.66	33419.70
325.50	57.02	4.30	231.98	1.58	39015.00
299.79	26.84	6.45	251.79	2.63	43233.00
294.98	37.21	7.54	264.07	2.80	46726.30
338.56	77.75	9.14	257.17	3.21	50129.20
319.53	37.26	7.23	283.53	2.60	55039.55
135.73	27.94	21.97	252.99	5.91	59820.05
249.85	67.27	15.22	262.09	4.42	63366.50
286.84	32.52	10.57	252.16	3.75	67266.79
244.73	27.85	15.54	235.98	4.22	71009.69
252.47	28.36	17.24	240.54	4.90	74624.29
166.94	54.96	9.19	230.52	2.71	78093.85
144.74	70.79	10.40	215.15	2.67	80991.30
328.96	16.18	9.74	212.28	3.35	83364.10
42.05	50.52	22.00	193.89	5.63	85654.05
242.49	32.52	27.94	198.94	7.10	87854.35
112.38	40.45	24.80	180.92	5.34	89922.30



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
35000.00	-41.27	10.03
40000.00	-39.13	30.19
45000.00	-14.53	28.57
50000.00	-70.21	28.62
55000.00	-28.70	24.22
60000.00	20.16	-15.31
65000.00	9.52	49.73
70000.00	6.14	26.79
75000.00	13.41	22.76
80000.00	56.34	-31.13
85000.00	-30.75	-21.78

LEGEND

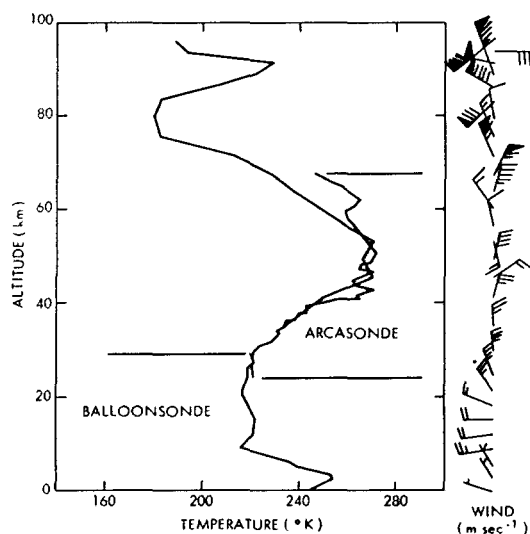


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
20000.00	.1151781	04	.1989598	01-	201.68	17.16-	7.36-
30000.00	.0738921	03	.1676754	01-	202.34	18.64-	8.92-
31000.00	.8233756	03	.1413971	01-	203.01	20.10-	10.46-
32000.00	.6975562	03	.1193103	01-	203.68	21.54-	11.98-
33000.00	.5908863	03	.1007349	01-	204.35	22.99-	12.75-
34000.00	.5013158	03	.8418111	02-	207.47	24.43-	14.86-
35000.00	.4266775	03	.6999909	02-	212.35	25.74-	17.29-
36000.00	.3645041	03	.5845403	02-	217.24	26.88-	19.46-
37000.00	.3124981	03	.4901158	02-	222.12	27.87-	21.79-
38000.00	.2688238	03	.4125423	02-	227.01	28.72-	23.12-
39000.00	.2320066	03	.3485394	02-	231.90	29.44-	24.66-
40000.00	.2008454	03	.2957319	02-	236.60	30.05-	25.98-
41000.00	.1743711	03	.2517516	02-	241.30	30.56-	27.16-
42000.00	.1518062	03	.2149875	02-	245.99	30.98-	28.21-
43000.00	.1325139	03	.1841491	02-	250.69	31.32-	29.14-
44000.00	.1159429	03	.1587209	02-	254.48	31.59-	29.73-
45000.00	.1016417	03	.1372473	02-	258.00	31.83-	30.20-
46000.00	.8926693	02	.1189174	02-	261.51	32.03-	30.62-
47000.00	.7850903	02	.1037931	02-	263.51	32.23-	30.64-
48000.00	.6904982	02	.9199512	03-	261.49	32.50-	30.13-
49000.00	.6067212	02	.8146498	03-	259.46	32.83-	29.94-
50000.00	.5325897	02	.7207432	03-	257.43	33.24-	29.81-
51000.00	.4678141	02	.6224148	03-	261.84	33.60-	31.36-
52000.00	.4119187	02	.5370377	03-	267.21	33.80-	32.95-
53000.00	.3636350	02	.4647516	03-	272.58	33.83-	34.56-
54000.00	.3218047	02	.4033463	03-	277.35	33.63-	36.11-
55000.00	.2854635	02	.3510174	03-	283.32	33.22-	37.40-
56000.00	.2532054	02	.3180000	03-	277.39	32.76-	36.09-
57000.00	.2239971	02	.2872488	03-	271.01	32.40-	34.73-
58000.00	.1975872	02	.2601308	03-	264.62	32.18-	33.44-
59000.00	.1737445	02	.2344268	03-	258.23	32.10-	32.23-
60000.00	.1523929	02	.2094692	03-	253.45	32.15-	31.52-
61000.00	.1335795	02	.1817698	03-	256.02	32.16-	32.74-
62000.00	.1172474	02	.1579628	03-	258.58	32.01-	33.99-
63000.00	.1030489	02	.1374698	03-	261.15	31.64-	35.31-
64000.00	.9061578	01	.1211964	03-	260.47	31.09-	35.66-
65000.00	.7962231	01	.1075440	03-	257.93	30.43-	35.46-
66000.00	.6987560	01	.9532171	04-	255.38	29.70-	35.21-
67000.00	.6124427	01	.8438908	04-	252.83	28.89-	34.90-
68000.00	.5359116	01	.7408485	04-	248.98	28.01-	34.21-
69000.00	.4679287	01	.6662878	04-	244.66	27.10-	33.37-
70000.00	.4076008	01	.5908191	04-	240.34	26.16-	32.50-
71000.00	.3541783	01	.5227803	04-	236.02	25.20-	31.61-
72000.00	.3074883	01	.4515551	04-	237.23	24.08-	32.19-
73000.00	.2671606	01	.3902585	04-	238.49	22.66-	32.55-
74000.00	.2323042	01	.3375569	04-	239.75	20.92-	32.69-
75000.00	.2020599	01	.2939749	04-	239.45	18.86-	32.18-
76000.00	.1755974	01	.2585940	04-	236.56	16.56-	30.78-
77000.00	.1523442	01	.2271232	04-	233.68	14.05-	29.24-
78000.00	.1319030	01	.1991696	04-	230.79	11.31-	27.57-
79000.00	.1139921	01	.1759420	04-	225.71	8.38-	25.09-
80000.00	.9815344	00	.1551418	04-	220.41	5.31-	22.39-
81000.00	.8421311	00	.1363663	04-	215.14	2.31-	17.95-
82000.00	.7208966	00	.1173967	04-	213.93	.55	15.05-
83000.00	.2166002	00	.1009844	04-	212.71	3.41	12.18-
84000.00	.5260893	00	.8846813	05-	207.17	6.08	7.40-
85000.00	.4465971	00	.7811317	05-	199.14	8.24	1.80-
86000.00	.3770229	00	.6746772	05-	194.68	9.87	1.96
87000.00	.3180729	00	.5625542	05-	196.97	11.43	2.20
88000.00	.2687007	00	.4735698	05-	197.67	13.15	3.42
89000.00	.2262049	00	.4170574	05-	188.95	14.49	9.46

FIGURE 5

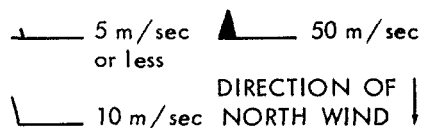
CHURCHILL, 10 FEBRUARY 1966, 0710 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
359.31	25.83	1.72	233.92	.77	35241.65
13.27	25.41	1.88	249.98	.69	41184.00
59.72	14.79	3.37	270.55	1.02	45648.80
4.70	39.54	6.57	266.44	1.80	49376.30
171.42	14.25	6.35	270.36	1.71	53014.20
350.52	10.89	7.73	259.17	1.68	56558.80
330.17	14.45	13.37	248.65	2.59	60019.70
2.80	45.27	10.98	239.13	2.10	63397.20
9.10	67.47	8.23	229.12	1.41	67226.39
344.08	66.53	9.73	213.49	1.67	71454.19
346.14	14.55	7.78	182.99	1.50	75512.80
357.78	11.66	8.40	180.05	1.59	79443.70
232.54	81.29	9.83	183.31	1.66	83230.45
301.78	89.35	12.73	206.17	2.42	86404.90
350.37	87.08	4.43	222.09	1.09	89018.10
291.92	51.01	6.20	228.98	1.46	91551.65
90.22	32.09	23.46	194.46	5.32	93908.90
242.48	131.28	62.73	189.45	14.86	96304.40



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
40000.00	-24.95	-4.60
45000.00	-9.96	-11.76
50000.00	-30.23	-3.05
55000.00	.17	.07
60000.00	-12.52	7.15
65000.00	-54.17	-5.75
70000.00	-64.89	8.29
75000.00	-20.42	5.35
80000.00	-2.67	9.86
85000.00	-4.34	70.89
90000.00	-59.96	27.26
95000.00	26.41	32.39

LEGEND

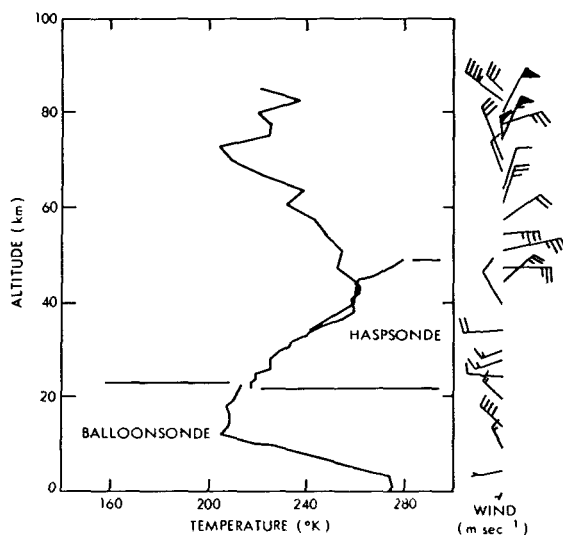


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
27000.00	.1304510	04	.2060810	01-	220.53	6.17-	4.05-
30000.00	.1119510	04	.1751516	01-	222.67	6.47-	4.86-
31000.00	.9622008	03	.1401036	01-	224.82	6.69-	5.58-
32000.00	.8282251	03	.1271295	01-	226.96	6.84-	6.21-
33000.00	.7139434	03	.1085616	01-	229.11	6.95-	6.19-
34000.00	.6163110	03	.9284640	02-	231.25	7.10-	6.09-
35000.00	.5327771	03	.7952444	02-	233.40	7.27-	6.03-
36000.00	.4612600	03	.6810021	02-	235.57	7.47-	6.17-
37000.00	.4000005	03	.5838711	02-	238.67	7.67-	6.36-
38000.00	.3474490	03	.5014839	02-	241.37	7.87-	6.55-
39000.00	.3022885	03	.4314708	02-	244.07	8.06-	6.74-
40000.00	.2634128	03	.3718639	02-	246.78	8.26-	6.93-
41000.00	.2298000	03	.3210245	02-	249.48	8.45-	7.12-
42000.00	.2010210	03	.2760017	02-	253.73	8.61-	7.84-
43000.00	.1761924	03	.2375990	02-	258.34	8.68-	8.57-
44000.00	.1547970	03	.2059902	02-	262.95	8.67-	9.20-
45000.00	.1363111	03	.1774893	02-	267.55	8.57-	9.73-
46000.00	.1202426	03	.1550591	02-	270.15	8.44-	9.53-
47000.00	.1061094	03	.1373941	02-	269.05	8.40-	8.19-
48000.00	.9359295	02	.1216859	02-	267.95	8.50-	7.58-
49000.00	.8251347	02	.1077239	02-	266.85	8.66-	7.35-
50000.00	.7273405	02	.9486520	03-	267.10	8.83-	7.62-
51000.00	.6413634	02	.8331544	03-	268.18	8.97-	8.13-
52000.00	.5658566	02	.7321278	03-	269.26	9.06-	8.50-
53000.00	.4995082	02	.6437085	03-	270.34	9.10-	9.37-
54000.00	.4407490	02	.5745687	03-	267.24	9.10-	8.99-
55000.00	.3883446	02	.5123056	03-	264.08	9.16-	8.63-
56000.00	.3416641	02	.4561782	03-	260.92	9.27-	8.32-
57000.00	.3001426	02	.4055656	03-	257.82	9.43-	8.07-
58000.00	.2632688	02	.3599818	03-	254.78	9.64-	7.90-
59000.00	.2305718	02	.3190779	03-	251.74	9.91-	7.76-
60000.00	.2016191	02	.2824197	03-	248.71	10.23-	7.68-
61000.00	.1760293	02	.2494064	03-	245.88	10.60-	7.72-
62000.00	.1534534	02	.2199420	03-	243.06	11.02-	8.09-
63000.00	.1335645	02	.1936823	03-	240.24	11.40-	8.86-
64000.00	.1160724	02	.1702270	03-	237.55	11.73-	9.63-
65000.00	.1007165	02	.1493504	03-	234.93	12.01-	10.38-
66000.00	.8725739	01	.1308481	03-	232.32	12.22-	11.06-
67000.00	.7547764	01	.1144717	03-	229.70	12.36-	11.70-
68000.00	.6516523	01	.1003390	03-	226.25	12.46-	11.97-
69000.00	.5613289	01	.8786656	04-	222.56	12.55-	12.13-
70000.00	.4823412	01	.7677728	04-	218.86	12.62-	12.28-
71000.00	.4134189	01	.6693676	04-	215.17	12.68-	12.43-
72000.00	.3531429	01	.5875584	04-	209.39	12.80-	11.76-
73000.00	.3001349	01	.5179526	04-	201.87	13.11-	10.49-
74000.00	.2535277	01	.4544374	04-	194.36	13.69-	9.38-
75000.00	.2127490	01	.3966808	04-	186.84	14.57-	8.49-
76000.00	.1775508	01	.3386975	04-	182.62	15.63-	9.34-
77000.00	.1478208	01	.2831432	04-	181.88	16.60-	11.79-
78000.00	.1229831	01	.2365399	04-	181.13	17.33-	13.38-
79000.00	.1022467	01	.1974715	04-	180.38	17.82-	15.93-
80000.00	.8498606	00	.1640024	04-	180.53	18.01-	17.95-
81000.00	.7067930	00	.1357475	04-	181.39	18.00-	18.32-
82000.00	.5883552	00	.1124673	04-	182.25	17.93-	18.62-
83000.00	.4902145	00	.9326725	05-	183.11	17.78-	18.89-
84000.00	.4097856	00	.7559537	05-	188.85	17.36-	20.95-
85000.00	.3446391	00	.6124215	05-	196.05	16.45-	23.01-
86000.00	.2916806	00	.4999506	05-	203.25	14.99-	24.44-
87000.00	.2482473	00	.4122395	05-	209.79	13.03-	25.10-
88000.00	.2123055	00	.3426085	05-	215.88	10.59-	25.17-
89000.00	.1823678	00	.2862218	05-	221.77	7.68-	24.87-
90000.00	.1571337	00	.2435665	05-	224.75	4.40-	23.16-
91000.00	.1356428	00	.2077408	05-	227.47	.97-	20.03-
92000.00	.1170156	00	.1830948	05-	222.65	2.20	14.32-
93000.00	.1002939	00	.1675428	05-	208.54	4.49	4.96-
94000.00	.8504304	01-	.1523598	05-	194.45	5.40	4.42
95000.00	.7162150	01-	.1297636	05-	192.28	5.30	7.15
96000.00	.6020381	01-	.1103232	05-	190.11	4.73	9.44

FIGURE 6

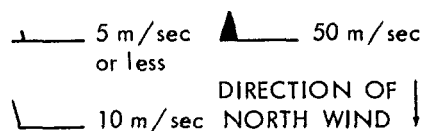
WALLOPS ISLAND, 10 FEB. 1966, 0748 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
263.93	21.95	.69	240.62	.42	34225.05
334.24	9.08	1.02	259.48	.56	39830.80
50.93	23.48	1.74	261.08	.80	44063.70
87.24	22.89	1.35	253.18	.02	47565.60
76.69	39.28	1.42	254.53	.67	50949.85
83.42	37.45	1.93	248.05	.88	54263.05
58.29	20.32	3.13	242.96	1.06	57491.65
6.34	23.28	4.65	231.85	1.11	60600.10
7.02	11.86	4.78	239.08	1.15	63632.65
337.81	8.05	3.69	221.52	.96	66610.25
329.68	28.64	3.69	209.44	.83	69475.94
355.24	48.99	4.61	203.77	.86	72276.49
17.98	55.76	4.68	224.43	1.02	74982.20
72.25	24.39	3.29	225.11	1.22	77569.90
20.36	48.46	5.09	219.69	1.12	80071.15
306.83	42.85	5.69	237.25	1.59	82483.79
310.11	28.78	7.62	221.01	1.93	84809.49



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
35000.00	.87	19.35
40000.00	-8.44	3.05
45000.00	-11.13	-19.46
50000.00	-6.81	-33.91
55000.00	-5.75	-32.66
60000.00	-20.73	-5.41
65000.00	-9.79	.61
70000.00	-29.23	12.51
75000.00	-52.72	-17.25
80000.00	-44.35	-17.03

LEGEND

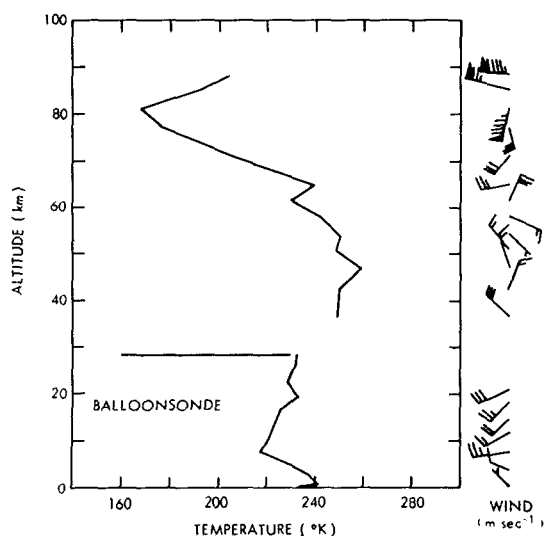


HEIGHT meters	PRESSURE nt /sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
27000.00	.1775835	04	.2835866	01-	218.16	5.54-	3.20-
28000.00	.1522281	04	.2396814	01-	221.26	5.81-	4.41-
29000.00	.1307799	04	.2030591	01-	224.37	5.94-	5.45-
30000.00	.1125939	04	.1724336	01-	227.48	5.93-	6.33-
31000.00	.9713846	03	.1467590	01-	230.59	5.80-	7.06-
32000.00	.8397417	03	.1251828	01-	233.70	5.54-	7.54-
33000.00	.7273700	03	.1070080	01-	236.80	5.20-	7.53-
34000.00	.6312448	03	.9166336	02-	239.91	4.84-	7.29-
35000.00	.5488786	03	.7861929	02-	243.22	4.47-	7.10-
36000.00	.4781901	03	.6755957	02-	246.58	4.07-	6.61-
37000.00	.4174022	03	.5817753	02-	249.95	3.65-	6.69-
38000.00	.3250199	03	.5020074	02-	253.31	3.21-	6.45-
39000.00	.3197899	03	.4340383	02-	256.68	2.74-	6.18-
40000.00	.2806232	03	.3766826	02-	259.54	2.27-	5.72-
41000.00	.2464646	03	.3303479	02-	259.92	1.85-	4.42-
42000.00	.2165139	03	.2897803	02-	260.30	1.57-	3.23-
43000.00	.1902462	03	.2542531	02-	260.68	1.40-	2.16-
44000.00	.1672039	03	.2231334	02-	261.06	1.35-	1.22-
45000.00	.1468955	03	.1976126	02-	258.97	1.47-	.50
46000.00	.1289182	03	.1749527	02-	256.71	1.84-	2.06
47000.00	.1130153	03	.1547310	02-	254.45	2.44-	3.39
48000.00	.9899206	02	.1361215	02-	253.35	3.23-	3.38
49000.00	.8669656	02	.1190269	02-	253.75	4.02-	2.36
50000.00	.7590741	02	.1041056	02-	254.15	4.80-	1.37
51000.00	.6654552	02	.9111720	03-	254.43	5.55-	.47
52000.00	.5828423	02	.8042386	03-	252.47	6.37-	.40
53000.00	.5099806	02	.7091953	03-	250.52	7.19-	.15-
54000.00	.4457789	02	.6247937	03-	248.56	8.07-	1.04-
55000.00	.3892918	02	.5493275	03-	246.88	8.94-	2.03-
56000.00	.3396725	02	.4823905	03-	245.31	9.79-	3.06-
57000.00	.2961302	02	.4232734	03-	243.77	10.64-	4.06-
58000.00	.2578761	02	.3725572	03-	241.14	11.49-	4.68-
59000.00	.2241733	02	.3287392	03-	237.57	12.41-	4.97-
60000.00	.1944706	02	.2895379	03-	233.99	13.41-	5.35-
61000.00	.1684665	02	.2521059	03-	232.80	14.44-	6.72-
62000.00	.1459994	02	.2162707	03-	235.18	15.34-	9.62-
63000.00	.1267170	02	.1858244	03-	237.56	15.94-	12.56-
64000.00	.1100426	02	.1618204	03-	236.91	16.32-	14.09-
65000.00	.9537733	01	.1438342	03-	231.01	16.67-	13.69-
66000.00	.8236515	01	.1274641	03-	225.12	17.14-	13.36-
67000.00	.7087097	01	.1122909	03-	219.87	17.71-	13.38-
68000.00	.6078511	01	.9819408	04-	215.66	18.35-	13.85-
69000.00	.5197928	01	.8564387	04-	211.44	19.02-	14.35-
70000.00	.4433027	01	.7411733	04-	208.37	19.69-	15.32-
71000.00	.3773600	01	.6370998	04-	206.35	20.30-	16.65-
72000.00	.3207288	01	.5468515	04-	204.32	20.81-	17.88-
73000.00	.2729239	01	.4543034	04-	209.29	20.99-	21.49-
74000.00	.2333644	01	.3747802	04-	216.92	20.55-	25.27-
75000.00	.2006233	01	.3114250	04-	224.43	19.44-	28.16-
76000.00	.1729384	01	.2681343	04-	224.69	17.82-	28.23-
77000.00	.1491065	01	.2309122	04-	224.96	15.87-	28.06-
78000.00	.1285424	01	.1997602	04-	224.17	13.59-	27.36-
79000.00	.1107108	01	.1737296	04-	222.01	11.01-	26.04-
80000.00	.9521754	00	.1508912	04-	219.84	8.14-	24.51-
81000.00	.8201844	00	.1261815	04-	226.45	4.85-	24.07-
82000.00	.7097098	00	.1057844	04-	233.73	1.00-	23.45-
83000.00	.6155134	00	.9177641	05-	233.64	3.23	20.19-
84000.00	.5326774	00	.8187194	05-	226.66	7.41	14.38-

FIGURE 7

BARROW, 10 FEBRUARY 1966, 0800 GMT.

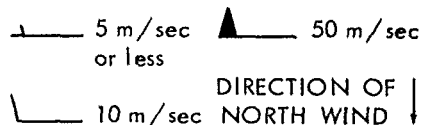
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
318.14	30.61	3.02	248.72	1.08	36451.05
13.35	15.75	3.81	250.43	1.25	42451.45
356.58	15.25	12.58	259.14	3.97	46973.75
345.61	14.91	10.81	248.90	5.86	50744.15
136.99	5.25	22.76	249.82	5.57	54423.95
118.75	14.66	18.52	242.16	4.76	58013.35
22.39	22.81	19.66	230.29	7.01	61509.35
256.77	24.64	25.45	239.90	7.59	64924.29
215.06	29.38	6.15	206.91	1.61	70896.29
174.76	25.19	11.08	177.48	2.47	77199.45
198.68	95.30	29.85	168.40	7.17	81197.95
292.75	74.07	34.22	193.56	13.32	85038.30
272.31	93.16	65.51	205.78	20.15	88255.19



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-18.38	6.19
45000.00	-15.26	-1.07
50000.00	-14.59	3.15
55000.00	4.35	-5.06
60000.00	-8.94	-10.48
65000.00	5.87	23.89
70000.00	21.28	17.94
75000.00	24.72	4.39
80000.00	70.74	20.69
85000.00	-27.45	67.92

LEGEND

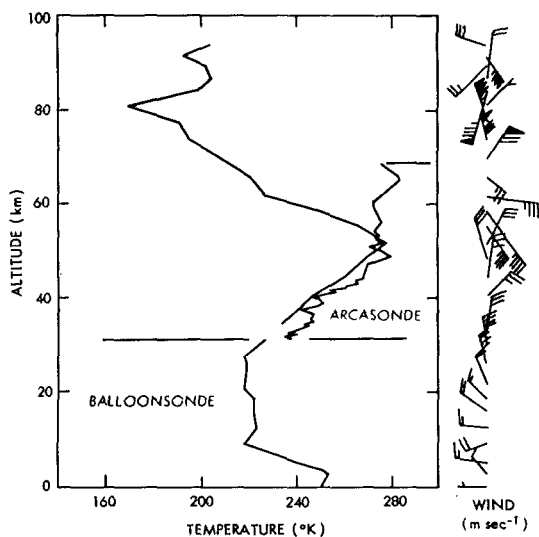


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
28000.00	.1558214	04	.2331859	01-	232.80	3.58-	7.00-
29000.00	.1347664	04	.2000583	01-	234.68	3.07-	6.85-
30000.00	.1166971	04	.1718552	01-	236.56	2.51-	6.65-
31000.00	.1011705	04	.1478127	01-	238.45	1.89-	6.40-
32000.00	.8781226	03	.1272903	01-	240.33	1.23-	6.09-
33000.00	.7630540	03	.1097499	01-	242.21	.55-	5.16-
34000.00	.6638147	03	.9473951	02-	244.10	.06	4.18-
35000.00	.5781260	03	.8187812	02-	245.98	.61	3.25-
36000.00	.5040511	03	.7084458	02-	247.87	1.10	2.39-
37000.00	.4398373	03	.6156933	02-	248.87	1.52	1.26-
38000.00	.3839559	03	.5368539	02-	249.16	1.80	.03
39000.00	.3352416	03	.4682047	02-	249.44	1.95	1.19
40000.00	.2927659	03	.4084152	02-	249.73	1.95	2.21
41000.00	.2557215	03	.3563304	02-	250.01	1.82	3.09
42000.00	.2234086	03	.3109497	02-	250.30	1.56	3.82
43000.00	.1952637	03	.2704954	02-	251.49	1.19	4.08
44000.00	.1708133	03	.2348250	02-	253.41	.77	3.91
45000.00	.1495821	03	.2040870	02-	255.74	.32	3.79
46000.00	.1311259	03	.1775661	02-	257.26	.16-	3.59
47000.00	.1150611	03	.1547265	02-	259.07	.68-	3.79
48000.00	.1009450	03	.1371822	02-	256.35	1.32-	4.18
49000.00	.8844109	02	.1214764	02-	253.64	2.09-	4.46
50000.00	.7737898	02	.1074325	02-	250.92	3.00-	4.61
51000.00	.6761887	02	.9461973	03-	248.96	4.02-	4.33
52000.00	.5906534	02	.8256829	03-	249.21	5.08-	3.08
53000.00	.5160285	02	.7206452	03-	249.46	6.09-	1.45
54000.00	.4509110	02	.6290805	03-	249.71	7.01-	.36-
55000.00	.3939327	02	.5520717	03-	248.59	7.85-	1.54-
56000.00	.3438630	02	.4860731	03-	246.45	8.68-	2.32-
57000.00	.2998157	02	.4275091	03-	244.32	9.53-	3.10-
58000.00	.2611078	02	.3755944	03-	242.19	10.38-	3.90-
59000.00	.2270469	02	.3312222	03-	238.81	11.29-	4.25-
60000.00	.1970438	02	.2916012	03-	235.41	12.27-	4.68-
61000.00	.1706611	02	.2562561	03-	232.01	13.33-	5.18-
62000.00	.1476461	02	.2220315	03-	231.66	14.38-	7.22-
63000.00	.1278386	02	.1899359	03-	234.48	15.20-	10.62-
64000.00	.1108838	02	.1627901	03-	237.30	15.68-	13.57-
65000.00	.9632560	01	.1401269	03-	239.48	15.84-	15.91-
66000.00	.8359891	01	.1244850	03-	233.96	15.90-	15.39-
67000.00	.7231166	01	.1102817	03-	228.43	16.04-	14.93-
68000.00	.6232951	01	.9741407	04-	222.91	16.27-	14.54-
69000.00	.5352791	01	.8578435	04-	217.38	16.61-	14.21-
70000.00	.4573161	01	.7529984	04-	211.86	17.05-	13.97-
71000.00	.3901543	01	.6584662	04-	206.42	17.60-	13.86-
72000.00	.3311222	01	.5717678	04-	201.75	18.24-	14.14-
73000.00	.2799592	01	.4948722	04-	197.08	18.95-	14.48-
74000.00	.2357637	01	.4268603	04-	192.41	19.74-	14.88-
75000.00	.1977197	01	.3668810	04-	187.75	20.60-	15.36-
76000.00	.1659909	01	.3141472	04-	183.08	21.55-	15.91-
77000.00	.1372138	01	.2679324	04-	178.41	22.58-	16.53-
78000.00	.1136103	01	.2253159	04-	175.66	23.63-	18.06-
79000.00	.9381763	00	.1885008	04-	173.39	24.59-	19.75-
80000.00	.7728239	00	.1573397	04-	171.12	25.44-	21.29-
81000.00	.6350052	00	.1310210	04-	168.84	26.33-	21.16-
82000.00	.5225490	00	.1048343	04-	173.65	27.11-	24.14-
83000.00	.4327282	00	.8365784	05-	180.20	27.42-	27.25-
84000.00	.3607892	00	.6730302	05-	186.75	27.24-	29.62-
85000.00	.3027181	00	.5455618	05-	193.30	26.61-	31.42-
86000.00	.2552066	00	.4508292	05-	197.21	25.62-	31.86-
87000.00	.2158753	00	.3741412	05-	201.01	24.37-	32.02-
88000.00	.1831880	00	.3115998	05-	204.81	22.85-	31.95-

FIGURE 8

CHURCHILL, 10 FEBRUARY 1966, 1800 GMT.

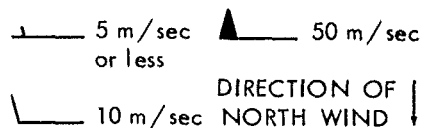
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
8.44	31.06	1.59	233.58	.65	34314.60
41.98	27.48	3.71	246.44	1.19	40157.85
8.77	32.05	3.95	260.56	1.08	44538.25
343.96	28.12	3.22	269.03	.79	48181.00
21.64	27.85	4.10	277.84	.91	51740.75
147.56	33.40	4.60	265.81	.91	55203.50
146.40	43.32	7.18	248.83	1.14	58573.95
95.12	34.94	10.14	227.41	1.41	61857.70
127.25	26.42	8.76	221.34	1.06	65566.80
33.71	68.53	7.09	208.19	.85	69670.05
347.29	79.19	5.66	194.93	.68	73617.35
342.39	152.86	12.23	190.73	1.81	77429.05
44.98	1.47	25.72	168.79	2.54	81087.39
200.27	83.21	33.50	199.31	4.92	84154.60
3.75	22.12	13.87	204.07	6.14	86675.20
223.79	25.83	52.74	202.49	7.76	89110.45
145.60	112.69	37.33	192.76	5.79	91460.00
292.34	30.41	29.53	203.95	5.13	93667.25



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-29.51	-6.17
40000.00	-20.70	-18.00
45000.00	-31.09	-3.28
50000.00	-26.44	-1.45
55000.00	25.01	-17.47
60000.00	21.76	-28.67
65000.00	14.02	-23.13
70000.00	-58.70	-33.40
75000.00	-102.07	27.87
80000.00	-44.03	13.01
85000.00	44.47	18.67
90000.00	46.79	-12.99

LEGEND

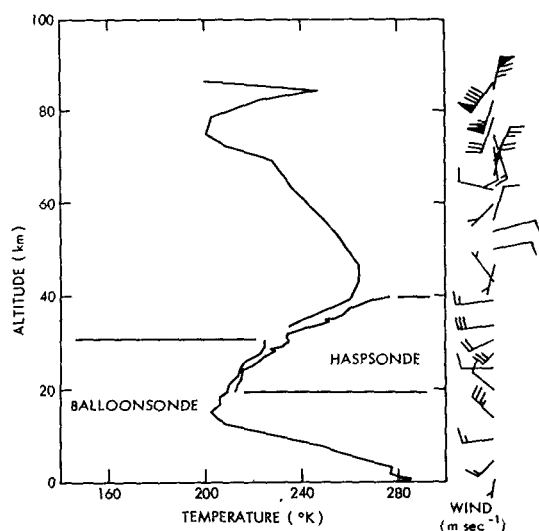


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
30000.00	.1115605	04	.1731143	01-	224.51	6.80-	5.96-
31000.00	.9600126	03	.1475882	01-	226.61	6.90-	6.54-
32000.00	.8273058	03	.1260174	01-	228.71	6.94-	7.03-
33000.00	.7139475	03	.1077599	01-	230.81	6.95-	6.88-
34000.00	.6169737	03	.9228261	02-	232.92	7.00-	6.66-
35000.00	.5339064	03	.7912105	02-	235.08	7.08-	6.51-
36000.00	.4626621	03	.6792744	02-	237.28	7.19-	6.41-
37000.00	.4014727	03	.5840219	02-	239.48	7.33-	6.33-
38000.00	.3488435	03	.5028426	02-	241.68	7.50-	6.30-
39000.00	.3035128	03	.4335537	02-	243.88	7.69-	6.29-
40000.00	.2644144	03	.3743267	02-	246.08	7.91-	6.31-
41000.00	.2307000	03	.3225829	02-	248.15	8.13-	6.67-
42000.00	.2016374	03	.2783430	02-	252.37	8.33-	7.05-
43000.00	.1765448	03	.2406303	02-	255.60	8.50-	7.41-
44000.00	.1548389	03	.2084159	02-	258.82	8.64-	7.73-
45000.00	.1360139	03	.1811116	02-	261.63	8.77-	7.89-
46000.00	.1196338	03	.1578978	02-	263.95	8.91-	7.88-
47000.00	.1053490	03	.1378304	02-	266.28	9.06-	7.89-
48000.00	.9287607	02	.1204604	02-	268.60	9.20-	8.51-
49000.00	.8197438	02	.1053607	02-	271.05	9.25-	9.39-
50000.00	.7243681	02	.9225965	03-	273.53	9.20-	10.15-
51000.00	.6408273	02	.8088743	03-	276.00	9.04-	10.80-
52000.00	.5673718	02	.7137434	03-	276.93	8.82-	10.89-
53000.00	.5020717	02	.2396192	03-	273.46	8.63-	9.95-
54000.00	.4436104	02	.5724122	03-	269.99	8.51-	9.33-
55000.00	.3913438	02	.5115510	03-	266.51	8.46-	8.77-
56000.00	.3445779	02	.4585408	03-	261.79	8.49-	7.85-
57000.00	.3026869	02	.4106989	03-	256.76	8.66-	6.91-
58000.00	.2652173	02	.3670612	03-	251.72	8.97-	6.08-
59000.00	.2317357	02	.3281148	03-	246.05	9.45-	5.15-
60000.00	.2018040	02	.2935164	03-	239.52	10.15-	4.05-
61000.00	.1750763	02	.2617711	03-	233.00	11.09-	3.14-
62000.00	.1513175	02	.2320514	03-	227.17	12.25-	3.03-
63000.00	.1304757	02	.2015405	03-	225.54	13.45-	5.16-
64000.00	.1123885	02	.1748699	03-	223.90	14.53-	7.16-
65000.00	.9270732	01	.1515780	03-	222.27	15.51-	9.04-
66000.00	.8310628	01	.1316313	03-	219.95	16.39-	10.53-
67000.00	.7128469	01	.1145773	03-	216.74	17.23-	11.61-
68000.00	.6100796	01	.9953163	04-	213.54	18.05-	12.68-
69000.00	.5209251	01	.8628195	04-	210.33	18.84-	13.71-
70000.00	.4437346	01	.7465257	04-	207.07	19.62-	14.71-
71000.00	.3770261	01	.6447565	04-	203.72	20.37-	15.65-
72000.00	.3194959	01	.5555338	04-	200.36	21.11-	16.57-
73000.00	.2700014	01	.4774791	04-	197.00	21.83-	17.48-
74000.00	.2276133	01	.4076820	04-	194.50	22.51-	18.71-
75000.00	.1915867	01	.3451077	04-	193.40	23.07-	20.39-
76000.00	.1611123	01	.2918755	04-	192.30	23.44-	21.87-
77000.00	.1353580	01	.2466303	04-	191.20	23.63-	23.16-
78000.00	.1134649	01	.2110407	04-	187.30	23.73-	23.25-
79000.00	.9466802	00	.1819034	04-	181.30	23.91-	22.56-
80000.00	.7850983	00	.1560163	04-	175.31	24.26-	21.95-
81000.00	.6469062	00	.1331080	04-	169.31	24.95-	19.91-
82000.00	.5338214	00	.1045555	04-	177.87	25.53-	24.34-
83000.00	.4448307	00	.8250984	05-	187.82	25.39-	28.25-
84000.00	.3742022	00	.6591707	05-	197.77	24.54-	31.07-
85000.00	.3166063	00	.5490107	05-	200.90	23.24-	30.98-
86000.00	.2684474	00	.4611653	05-	202.79	21.76-	30.30-
87000.00	.2278987	00	.3894625	05-	203.86	20.15-	29.24-
88000.00	.1935167	00	.3317625	05-	203.21	18.50-	27.54-
89000.00	.1642441	00	.2824802	05-	202.56	16.86-	25.85-
90000.00	.1391553	00	.2438520	05-	198.80	15.34-	23.07-
91000.00	.1175134	00	.2103083	05-	194.66	14.21-	19.05-
92000.00	.9910098	01-	.1766008	05-	195.49	13.44-	17.36-
93000.00	.8378963	01-	.1455407	05-	200.56	12.69-	17.44-

FIGURE 9

WALLOPS ISLAND, 10 FEB. 1966, 1841 GMT.

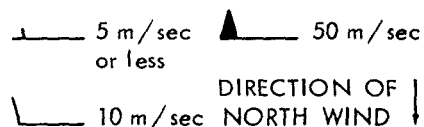
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
262.90	30.33	.72	234.94	.41	33371.40
264.27	17.40	1.14	259.67	.69	32916.55
326.12	2.97	1.48	264.20	1.02	43065.19
193.16	2.73	2.81	263.72	.99	46525.90
83.09	9.68	1.48	258.93	.98	49893.85
75.30	10.01	1.79	254.45	1.09	53170.25
12.94	8.87	3.34	248.82	1.09	56459.04
233.81	4.02	3.55	243.39	1.10	59663.65
291.25	8.80	2.89	236.74	1.37	62809.75
8.42	18.61	5.34	232.59	1.48	66054.15
23.02	27.14	4.62	228.31	1.45	69171.60
172.67	10.26	6.18	208.79	1.45	72117.95
160.05	12.71	6.53	201.37	1.42	74894.35
198.94	28.44	3.13	202.81	.73	78634.64
194.37	63.82	5.77	224.09	1.59	82187.99
7.23	75.82	7.29	246.64	2.62	84395.99
202.44	88.00	9.73	200.19	2.42	86466.19



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	3.15	26.34
40000.00	.64	13.22
45000.00	.39	1.07
50000.00	-1.20	-9.61
55000.00	-5.93	-5.40
60000.00	1.78	3.77
65000.00	-13.46	.82
70000.00	-15.09	-7.99
75000.00	12.36	-3.95
80000.00	40.32	11.76
85000.00	-29.53	3.04

LEGEND

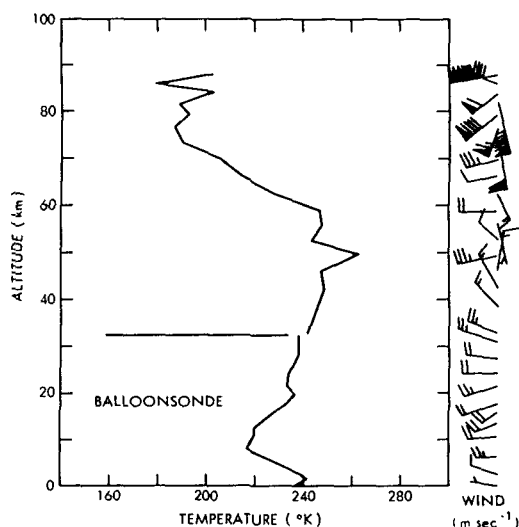


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)	
29000.00	.1333484	04	.2064639	01-	225.01	4.09-	3.87-
30000.00	.1148218	04	.1760020	01-	227.28	4.07-	4.33-
31000.00	.9902088	03	.1502799	01-	229.55	3.98-	4.83-
32000.00	.8552292	03	.1285226	01-	231.82	3.80-	5.18-
33000.00	.7397389	03	.1100881	01-	230.09	3.59-	4.87-
34000.00	.6410374	03	.9393569	02-	237.74	3.33-	4.99-
35000.00	.5568748	03	.8010000	02-	242.20	3.38-	5.35-
36000.00	.4850269	03	.6850399	02-	246.66	2.70-	5.61-
37000.00	.4235138	03	.5875363	02-	251.12	2.24-	5.77-
38000.00	.3707015	03	.5052957	02-	255.58	1.70-	5.84-
39000.00	.3252136	03	.4361606	02-	259.76	1.09-	5.73-
40000.00	.2856982	03	.3815634	02-	260.85	.50-	4.50-
41000.00	.2511299	03	.3340001	02-	261.94	.00-	3.36-
42000.00	.2208712	03	.2925391	02-	263.03	.41	2.31-
43000.00	.1943693	03	.2563755	02-	264.12	.73	1.35-
44000.00	.1710926	03	.2257233	02-	264.06	.94	.07-
45000.00	.1506051	03	.1987984	02-	263.92	1.00	1.10
46000.00	.1325665	03	.1750796	02-	263.78	.93	2.14
47000.00	.1166693	03	.1545213	02-	263.04	.70	3.25
48000.00	.1026283	03	.1366628	02-	261.62	.32	3.79
49000.00	.9021782	02	.1207923	02-	260.20	.13-	3.88
50000.00	.7925546	02	.1066950	02-	258.78	.65-	3.90
51000.00	.6957935	02	.9416727	03-	257.41	1.24-	3.83
52000.00	.6104460	02	.8305849	03-	256.04	1.90-	3.69
53000.00	.5352136	02	.7321389	03-	254.67	2.60-	3.07
54000.00	.4689050	02	.6456192	03-	253.02	3.30-	2.25
55000.00	.4104667	02	.5690010	03-	251.31	3.98-	1.47
56000.00	.3590001	02	.5010642	03-	249.60	4.66-	.69
57000.00	.3137116	02	.4408610	03-	247.90	5.33-	.08-
58000.00	.2738935	02	.3875572	03-	246.21	5.99-	.84-
59000.00	.2389152	02	.3404094	03-	244.51	6.65-	1.60-
60000.00	.2082064	02	.2989003	03-	242.67	7.30-	2.29-
61000.00	.1812485	02	.2624846	03-	240.56	7.95-	2.88-
62000.00	.1575951	02	.2302515	03-	238.45	8.61-	3.78-
63000.00	.1368705	02	.2016245	03-	236.49	9.20-	5.12-
64000.00	.1187618	02	.1759003	03-	235.21	9.69-	6.61-
65000.00	.1029738	02	.1533507	03-	233.93	10.03-	7.98-
66000.00	.8321873	01	.1335973	03-	232.65	10.24-	9.19-
67000.00	.7724126	01	.1153466	03-	231.28	10.32-	10.25-
68000.00	.6681746	01	.1012469	03-	229.91	10.25-	11.17-
69000.00	.5775273	01	.8803737	04-	228.54	10.03-	11.96-
70000.00	.4980542	01	.7787265	04-	222.81	9.78-	11.03-
71000.00	.4277515	01	.6892965	04-	216.19	9.66-	9.82-
72000.00	.3656546	01	.6078546	04-	209.56	9.71-	8.72-
73000.00	.3114426	01	.5256046	04-	206.43	9.84-	9.16-
74000.00	.2646792	01	.4525425	04-	203.76	9.89-	9.76-
75000.00	.2244958	01	.3883150	04-	201.41	9.85-	10.42-
76000.00	.1902712	01	.3284893	04-	201.79	9.58-	12.07-
77000.00	.1613231	01	.2779833	04-	202.17	8.98-	13.40-
78000.00	.1368287	01	.2353288	04-	202.56	8.02-	14.42-
79000.00	.1161912	01	.1974635	04-	204.99	6.61-	15.93-
80000.00	.9899755	00	.1634665	04-	210.98	4.49-	18.22-
81000.00	.8473128	00	.1360471	04-	216.97	1.70-	18.14-
82000.00	.7283231	00	.1137999	04-	222.96	1.59	17.65-
83000.00	.6292780	00	.9433995	05-	232.38	5.54	17.96-
84000.00	.5470188	00	.7855648	05-	242.59	10.30	17.85-
85000.00	.4756326	00	.7109117	05-	233.08	15.30	10.63-
86000.00	.4093949	00	.6770791	05-	210.65	19.31	2.32

FIGURE 10

BARROW, 10 FEBRUARY 1966, 2130 GMT.

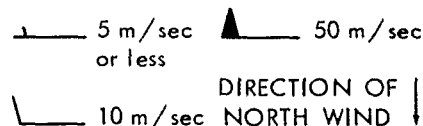
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
299.42	24.79	1.66	242.46	.61	32966.80
319.24	15.66	3.70	245.68	1.25	38465.55
332.90	12.93	6.60	249.23	2.19	42584.90
5.05	14.68	8.45	248.14	2.50	46004.85
258.04	33.21	10.60	262.61	3.48	49338.45
317.90	9.73	3.43	243.81	4.72	52576.95
175.62	5.11	21.51	247.55	5.32	55725.85
268.68	20.66	13.54	246.33	4.45	58795.35
157.36	15.60	25.79	228.86	6.18	62243.20
249.52	9.89	31.02	214.70	9.04	66046.05
238.32	34.46	35.31	205.98	10.06	69695.45
176.44	59.93	40.40	190.50	9.79	73201.54
204.46	66.33	36.77	187.30	9.18	76563.14
245.12	89.00	101.71	192.85	13.38	79348.34
175.44	92.82	60.66	189.46	15.84	81633.74
242.77	100.53	55.86	203.62	15.31	83850.30
297.29	39.42	1.78	178.70	15.26	85956.39
262.70	187.60	109.45	202.70	33.54	87938.39



WIND COMPONENTS m/sec

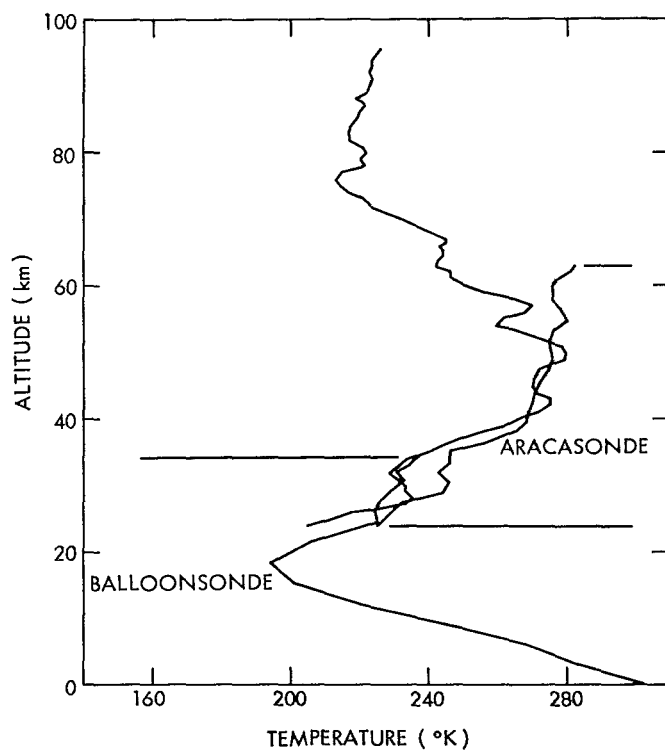
HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-12.05	17.38
40000.00	-11.73	8.61
45000.00	-13.70	.81
50000.00	4.00	27.18
55000.00	2.25	1.20
60000.00	5.34	11.34
65000.00	6.46	5.06
70000.00	21.72	26.45
75000.00	60.11	12.96
80000.00	53.15	55.61
85000.00	11.02	59.71

LEGEND



HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
28000.00	.1609383	04	.2357694	01-	237.81	.42-	5.97-
29000.00	.1795774	04	.2036738	01-	238.74	.38	5.17-
30000.00	.1211246	04	.1760562	01-	239.68	1.18	4.36-
31000.00	.1051741	04	.1522766	01-	240.62	1.98	3.57-
32000.00	.9137836	03	.1317891	01-	241.55	2.78	2.77-
33000.00	.7943856	03	.1141318	01-	242.48	3.52	1.38-
34000.00	.6909203	03	.9902795	02-	243.06	4.14	.15
35000.00	.6011584	03	.8595589	02-	243.65	4.62	1.56
36000.00	.5232550	03	.7463792	02-	244.23	4.96	2.83
37000.00	.4556177	03	.6483485	02-	244.82	5.16	3.97
38000.00	.3968712	03	.5634065	02-	245.40	5.23	4.98
39000.00	.3458418	03	.4895024	02-	246.13	5.17	5.73
40000.00	.3015209	03	.4252814	02-	247.00	5.00	6.43
41000.00	.2630169	03	.3696830	02-	247.86	4.73	6.95
42000.00	.2295484	03	.3215231	02-	248.72	4.35	7.36
43000.00	.2004149	03	.2802970	02-	249.09	3.86	7.85
44000.00	.1749880	03	.2450481	02-	248.78	3.24	8.48
45000.00	.1527674	03	.2142047	02-	248.46	2.45	8.93
46000.00	.1333509	03	.1872191	02-	248.14	1.53	9.22
47000.00	.1165334	03	.1608098	02-	252.46	.58	7.45
48000.00	.1020747	03	.1384769	02-	256.80	.21-	5.16
49000.00	.8961234	02	.1195495	02-	261.14	.80-	2.81
50000.00	.7871359	02	.1059724	02-	258.77	1.33-	3.19
51000.00	.6890975	02	.9502672	03-	252.96	2.07-	4.78
52000.00	.6030248	02	.8499976	03-	247.15	3.09-	6.12
53000.00	.5257910	02	.7437704	03-	244.31	4.32-	5.55
54000.00	.4582567	02	.6503071	03-	245.40	5.49-	2.99
55000.00	.3996787	02	.5644495	03-	246.68	6.51-	.66
56000.00	.3487906	02	.4910834	03-	247.43	7.37-	1.31-
57000.00	.3044240	02	.4293046	03-	247.04	8.13-	2.69-
58000.00	.2656537	02	.3752320	03-	246.64	8.82-	3.99-
59000.00	.2317192	02	.3291042	03-	245.29	9.46-	4.86-
60000.00	.2017624	02	.2926017	03-	240.22	10.17-	4.35-
61000.00	.1751683	02	.2595080	03-	235.15	11.04-	3.98-
62000.00	.1516189	02	.2295666	03-	230.09	12.08-	4.07-
63000.00	.1308635	02	.2016905	03-	226.04	13.19-	5.09-
64000.00	.1126668	02	.1765528	03-	222.32	14.52-	6.27-
65000.00	.9675996	01	.1542084	03-	218.59	15.46-	7.46-
66000.00	.8288595	01	.1343857	03-	214.87	16.62-	8.66-
67000.00	.7084630	01	.1161305	03-	212.42	17.74-	10.37-
68000.00	.6044057	01	.1002674	03-	210.03	18.80-	12.03-
69000.00	.5148775	01	.8638498	04-	207.64	19.78-	13.61-
70000.00	.4376463	01	.7450606	04-	204.64	20.72-	14.88-
71000.00	.3709107	01	.6453747	04-	200.22	21.66-	15.57-
72000.00	.3132100	01	.5572677	04-	195.80	22.66-	16.31-
73000.00	.2634815	01	.4796063	04-	191.39	23.72-	17.11-
74000.00	.2210526	01	.4058770	04-	186.74	24.75-	19.06-
75000.00	.1852423	01	.3418441	04-	188.78	25.61-	21.14-
76000.00	.1551028	01	.2876787	04-	187.83	26.29-	22.99-
77000.00	.1298366	01	.2403873	04-	188.16	26.75-	25.11-
78000.00	.1088111	01	.1993447	04-	190.16	26.86-	27.51-
79000.00	.9136374	00	.1656419	04-	192.15	26.56-	29.48-
80000.00	.7677804	00	.1393959	04-	191.88	25.93-	30.26-
81000.00	.6447302	00	.1179683	04-	190.40	25.20-	29.02-
82000.00	.5414090	00	.9834124	05-	191.70	24.48-	28.84-
83000.00	.4562510	00	.8020240	05-	198.18	23.47-	30.25-
84000.00	.3861674	00	.6665192	05-	201.84	22.13-	30.30-
85000.00	.3257163	00	.5971948	05-	190.01	21.03-	24.93-
86000.00	.2718045	00	.5285071	05-	179.22	20.76-	20.12-
87000.00	.2271224	00	.4135383	05-	191.33	20.43-	24.86-

FIGURE 11
ASCENSION, 27 FEBRUARY 1966, 1652 GMT.

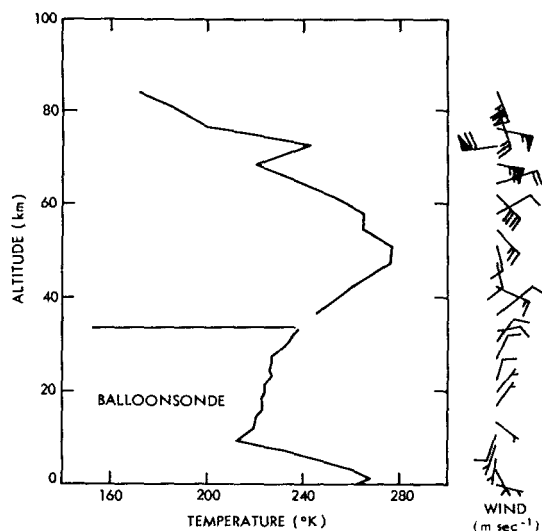


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
24000.00	.2366431	04	.4860000	01-	205.10	3.54-
25000.00	.2426467	04	.4020000	01-	210.80	4.81-
26000.00	.2066497	04	.3320000	01-	218.00	5.57-
27000.00	.1786520	04	.2709999	01-	229.80	4.97-
28000.00	.1533207	04	.2280000	01-	235.40	5.13-
29000.00	.1333224	04	.2000000	01-	233.10	4.11-
30000.00	.1159905	04	.1730000	01-	232.70	3.10-
31000.00	.9999180	03	.1500000	01-	230.60	3.03-
32000.00	.8639291	03	.1310000	01-	229.30	2.82-
33000.00	.7466054	03	.1120000	01-	231.19	2.69-
34000.00	.6430471	03	.9609999	02-	233.60	2.93-
35000.00	.5572875	03	.8139999	02-	238.60	3.01-
36000.00	.4826270	03	.6040000	02-	242.80	3.13-
37000.00	.4212987	03	.5009999	02-	248.60	2.75-
38000.00	.3679697	03	.5049999	02-	255.10	2.43-
39000.00	.3239733	03	.4319999	02-	261.90	1.47-
40000.00	.2839766	03	.3730000	02-	266.00	1.10-
41000.00	.2506461	03	.3220000	02-	271.80	.19-
42000.00	.2213151	03	.2819999	02-	274.19	.61
43000.00	.1973171	03	.2490000	02-	274.90	2.26
44000.00	.1733191	03	.2230000	02-	270.70	2.25
45000.00	.1533207	03	.1980000	02-	270.00	2.83
46000.00	.1346556	03	.1740000	02-	270.19	2.52
47000.00	.1193235	03	.1530000	02-	271.30	2.99
48000.00	.1054580	03	.1340000	02-	273.50	3.09
49000.00	.9332567	02	.1170000	02-	279.00	3.30
50000.00	.8265987	02	.1030000	02-	279.30	3.61
51000.00	.7346063	02	.9189998	03-	278.10	4.26
52000.00	.6492799	02	.8279999	03-	273.30	4.33
53000.00	.5746194	02	.7499998	03-	266.30	4.56
54000.00	.5039585	02	.6769999	03-	259.60	3.92
55000.00	.4439634	02	.5909999	03-	261.60	3.84
56000.00	.3906345	02	.5079999	03-	267.60	3.73
57000.00	.3453050	02	.4449999	03-	269.69	4.19
58000.00	.3053082	02	.4009999	03-	264.30	4.78
59000.00	.2679780	02	.3630000	03-	256.50	4.70
60000.00	.2333142	02	.3260000	03-	250.00	3.87
61000.00	.2039832	02	.2900000	03-	246.10	3.58
62000.00	.1786520	02	.2530000	03-	245.70	3.59
63000.00	.1559872	02	.2240000	03-	241.90	3.47
64000.00	.1359888	02	.1940000	03-	243.10	3.41
65000.00	.1181236	02	.1690000	03-	243.80	3.19
66000.00	.1027915	02	.1480000	03-	242.80	3.40
67000.00	.8972595	01	.1280000	03-	244.80	4.17
68000.00	.7812691	01	.1130000	03-	240.50	4.94
69000.00	.6786109	01	.9999999	04-	236.60	5.71
70000.00	.5892849	01	.8849999	04-	231.90	6.74
71000.00	.5092914	01	.7819999	04-	226.60	7.55
72000.00	.4386306	01	.6859999	04-	222.80	8.30
73000.00	.3773023	01	.5970000	04-	220.00	9.22
74000.00	.3239734	01	.5219999	04-	216.00	10.28
75000.00	.2773105	01	.4510000	04-	214.10	11.35
76000.00	.2373138	01	.3870000	04-	213.10	12.76
77000.00	.2026500	01	.3290000	04-	214.89	14.33
78000.00	.1746523	01	.2740000	04-	220.90	17.39
79000.00	.1493211	01	.2360000	04-	220.20	20.01
80000.00	.1286561	01	.2020000	04-	221.70	24.11
81000.00	.1105242	01	.1750000	04-	219.50	28.21
82000.00	.9492553	00	.1520000	04-	217.40	32.41
83000.00	.8132665	00	.1310000	04-	216.50	36.39
84000.00	.6986092	00	.1120000	04-	216.90	40.87
85000.00	.5999506	00	.9549999	05-	218.69	45.44
86000.00	.5146243	00	.8159999	05-	219.80	49.97
87000.00	.4426302	00	.6969999	05-	221.20	55.07
88000.00	.3799687	00	.6049999	05-	219.19	60.01
89000.00	.3266398	00	.5139999	05-	222.00	65.33
90000.00	.2826434	00	.4419999	05-	222.40	71.94
91000.00	.2426467	00	.3790000	05-	223.69	77.14
92000.00	.2106493	00	.3270000	05-	222.80	83.99
93000.00	.1799852	00	.2810000	05-	223.80	87.53
94000.00	.1559871	00	.2420000	05-	223.80	93.33
95000.00	.1346556	00	.2080000	05-	225.00	97.98

FIGURE 12

BARROW, 1 MAY 1966, 2210 GMT.

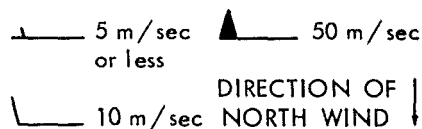
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
57.68	10.76	3.68	244.94	.94	36785.50
118.65	12.75	7.78	261.46	1.64	42743.90
163.39	9.44	18.48	276.23	3.82	47198.55
162.72	10.79	24.97	276.82	5.06	50899.05
135.93	23.85	21.12	254.63	4.30	54505.40
60.58	12.20	9.16	265.46	2.37	58003.40
133.69	38.13	12.17	252.39	2.57	61401.30
78.38	17.99	34.48	238.70	6.46	64705.25
97.61	66.02	27.48	219.98	5.10	68426.15
253.51	69.72	23.63	242.61	4.51	72549.15
103.72	53.78	73.78	200.22	11.81	76507.20
173.84	27.39	86.20	186.73	12.44	80331.24
170.95	77.43	38.20	172.17	7.19	84000.94



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	.64	-10.22
45000.00	7.59	-6.88
50000.00	9.99	-3.08
55000.00	13.86	-15.74
60000.00	13.00	-20.58
65000.00	-2.64	-21.41
70000.00	12.96	-14.93
75000.00	15.43	-6.89
80000.00	25.98	-7.20

LEGEND

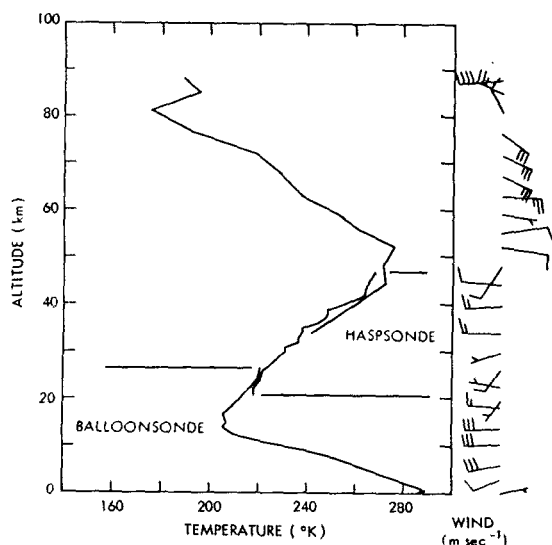


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
32000.00	.9177849	03 .1353461	01- 236.24	3.23	.15-
33000.00	.7955715	03 .1164268	01- 238.05	3.68	.60
34000.00	.6904133	03 .1002714	01- 239.87	4.06	1.41
35000.00	.5998234	03 .8645903	02- 241.69	4.39	2.15
36000.00	.5216923	03 .7463544	02- 243.51	4.64	2.83
37000.00	.4542557	03 .6445216	02- 245.54	4.84	3.36
38000.00	.3960848	03 .5557125	02- 248.31	5.02	3.55
39000.00	.3459034	03 .4799500	02- 251.08	5.19	3.73
40000.00	.3025421	03 .4152015	02- 253.85	5.36	3.91
41000.00	.2650124	03 .3597686	02- 256.62	5.52	4.08
42000.00	.2324783	03 .3122294	02- 259.39	5.68	4.25
43000.00	.2042375	03 .2712562	02- 262.30	5.84	4.37
44000.00	.1797087	03 .2357006	02- 265.62	6.02	4.34
45000.00	.1583831	03 .2051704	02- 268.93	6.22	4.34
46000.00	.1398097	03 .1789054	02- 272.25	6.44	4.37
47000.00	.1236057	03 .1562675	02- 275.56	6.69	4.42
48000.00	.1093841	03 .1378941	02- 276.35	6.92	4.72
49000.00	.9682274	02 .1219876	02- 276.51	7.18	4.90
50000.00	.8571356	02 .1079282	02- 276.67	7.43	5.10
51000.00	.7588067	02 .0561474	03- 276.48	7.69	5.43
52000.00	.6712528	02 .8562914	03- 273.10	7.86	6.90
53000.00	.5929181	02 .7658408	03- 269.72	7.89	7.82
54000.00	.5229267	02 .6840078	03- 266.34	7.83	8.33
55000.00	.4606743	02 .6061395	03- 264.75	7.75	8.10
56000.00	.4057192	02 .5334056	03- 264.08	7.74	7.19
57000.00	.3573747	02 .4694253	03- 265.22	7.63	6.39
58000.00	.3148391	02 .4131829	03- 265.46	8.05	5.71
59000.00	.2771357	02 .3690304	03- 261.63	8.28	6.67
60000.00	.2434977	02 .3290766	03- 257.78	8.41	7.57
61000.00	.2135355	02 .2929553	03- 253.93	8.43	8.38
62000.00	.1868840	02 .2605211	03- 249.91	8.36	8.86
63000.00	.1632067	02 .2313515	03- 245.76	8.26	8.86
64000.00	.1422073	02 .2050422	03- 241.62	8.13	8.85
65000.00	.1236107	02 .1815392	03- 237.21	7.99	8.93
66000.00	.1071482	02 .1607720	03- 232.18	7.78	9.27
67000.00	.9259201	01 .1420084	03- 227.15	7.50	9.54
68000.00	.7975573	01 .1250923	03- 222.12	7.13	9.73
69000.00	.6861003	01 .1071256	03- 223.12	6.88	7.12
70000.00	.5915209	01 .9014031	04- 228.61	7.15	2.97
71000.00	.5118007	01 .7616294	04- 234.10	8.08	.36-
72000.00	.4443325	01 .6460761	04- 239.59	9.70	2.98-
73000.00	.3861974	01 .5658280	04- 237.78	11.79	2.21-
74000.00	.3344096	01 .5130595	04- 227.07	13.83	2.30
75000.00	.2875722	01 .4630383	04- 216.36	15.47	6.81
76000.00	.2454196	01 .4157436	04- 205.65	16.61	11.28
77000.00	.2072965	01 .3650775	04- 198.48	17.34	13.73
78000.00	.1755003	01 .3136146	04- 194.95	17.96	14.04
79000.00	.1476302	01 .2686739	04- 191.42	18.65	14.37
80000.00	.1237939	01 .2295243	04- 187.90	19.42	14.82
81000.00	.1034512	01 .1957904	04- 184.07	20.00	17.80
82000.00	.8612477	00 .1665902	04- 180.11	20.13	20.54
83000.00	.7141215	00 .1412439	04- 176.14	19.77	22.82
84000.00	.5896413	00 .1193114	04- 172.17	18.89	24.76

FIGURE 13

WALLOPS ISLAND, 2 MAY 1966, 0114 GMT.

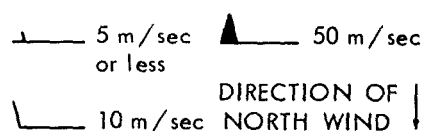
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
273.96	13.05	1.11	242.19	.57	33938.65
263.95	15.08	1.59	260.13	1.49	40037.44
278.41	7.97	1.66	272.52	1.08	44617.25
200.98	8.53	2.03	271.82	2.14	48415.90
95.67	8.07	1.72	275.64	2.22	52147.50
77.44	10.23	2.02	261.50	2.20	55792.05
96.47	3.52	2.42	251.85	1.21	59335.00
91.02	24.32	2.30	237.48	1.11	63352.20
117.92	25.59	2.33	228.59	1.00	67810.55
113.18	25.92	2.65	218.75	1.20	72109.64
126.69	29.93	4.04	193.12	1.21	76770.24
336.65	12.37	5.63	176.40	1.33	81254.24
293.63	22.75	2.77	196.30	1.08	85045.24
265.43	38.32	3.82	189.24	1.42	88239.99



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-.46	13.36
40000.00	1.57	14.98
45000.00	-.24	7.40
50000.00	4.92	-1.65
55000.00	-1.56	-9.56
60000.00	.40	-6.94
65000.00	4.70	-23.68
70000.00	11.07	-23.23
75000.00	14.96	-23.93
80000.00	-3.18	-3.18
85000.00	-9.14	20.65

LEGEND

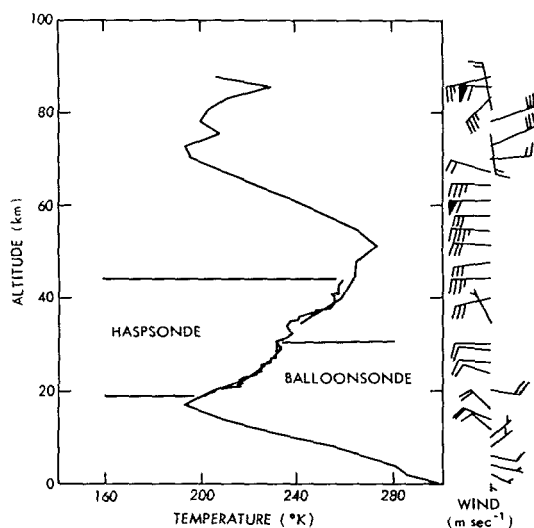


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
26000.00	.2175604	04	.3438955	01-	220.40	.58-	.38
27000.00	.1867552	04	.2915715	01-	223.14	.66-	.48-
28000.00	.1606188	04	.2477196	01-	225.88	.61-	1.21-
29000.00	.1383984	04	.2108873	01-	228.63	.46-	1.81-
30000.00	.1194695	04	.1798849	01-	231.37	.19-	2.29-
31000.00	.1033133	04	.1537351	01-	234.12	.18	2.65-
32000.00	.8949728	03	.1316333	01-	236.86	.66	2.89-
33000.00	.7766066	03	.1129157	01-	239.61	1.21	2.43-
34000.00	.6750165	03	.9702866	02-	242.36	1.74	1.86-
35000.00	.5877028	03	.8346502	02-	245.30	2.28	1.38-
36000.00	.5125505	03	.7192947	02-	248.24	2.81	.89-
37000.00	.4477482	03	.6209956	02-	251.19	3.34	.40-
38000.00	.3917712	03	.5370705	02-	254.13	3.88	.07
39000.00	.3433338	03	.4652833	02-	257.07	4.41	.56
40000.00	.3013404	03	.4037666	02-	260.01	4.94	1.05
41000.00	.2648833	03	.3512403	02-	262.72	5.47	1.62
42000.00	.2331476	03	.3060069	02-	265.43	5.99	2.17
43000.00	.2054881	03	.2669823	02-	268.14	6.42	2.72
44000.00	.1817467	03	.2332628	02-	270.84	6.99	3.26
45000.00	.1602065	03	.2048606	02-	272.44	7.44	4.18
46000.00	.1415806	03	.1811656	02-	272.26	7.79	5.69
47000.00	.1251148	03	.1602044	02-	272.07	7.99	7.05
48000.00	.1105592	03	.1416623	02-	271.89	8.07	7.58
49000.00	.9770876	02	.1249569	02-	272.41	8.16	7.46
50000.00	.8638535	02	.1100619	02-	273.44	8.28	7.17
51000.00	.7641227	02	.9699211	03-	274.46	8.45	6.94
52000.00	.6762406	02	.8551788	03-	275.48	8.67	6.76
53000.00	.5982029	02	.7652578	03-	272.33	8.85	7.73
54000.00	.5283474	02	.6856605	03-	268.45	8.95	8.59
55000.00	.4658248	02	.6133850	03-	264.57	8.96	9.38
56000.00	.4099780	02	.5473758	03-	260.93	8.87	9.99
57000.00	.3602770	02	.4860934	03-	258.21	8.71	10.17
58000.00	.3161803	02	.4311460	03-	255.48	8.51	10.30
59000.00	.2771042	02	.3819341	03-	252.76	8.26	10.40
60000.00	.2424839	02	.3386258	03-	249.47	7.96	10.69
61000.00	.2118055	02	.3000861	03-	245.89	7.56	11.02
62000.00	.1846500	02	.2654736	03-	242.31	7.07	10.93
63000.00	.1606549	02	.2344358	03-	238.74	6.56	10.51
64000.00	.1395334	02	.2058140	03-	235.18	6.10	9.26
65000.00	.1210291	02	.1800403	03-	234.19	5.73	8.03
66000.00	.1048559	02	.1573211	03-	232.20	5.48	6.92
67000.00	.9073563	01	.1373151	03-	230.20	5.34	5.92
68000.00	.7842024	01	.1197440	03-	228.15	5.33	5.34
69000.00	.6768504	01	.1043991	03-	225.66	5.44	4.39
70000.00	.5833458	01	.9089772	04-	223.57	5.66	3.81
71000.00	.5020136	01	.7903343	04-	221.29	6.02	3.39
72000.00	.4313674	01	.6862109	04-	219.00	6.50	3.04
73000.00	.3697141	01	.6022884	04-	213.85	7.02	4.38
74000.00	.3156578	01	.5277973	04-	208.35	7.45	5.24
75000.00	.2683817	01	.4609132	04-	202.85	7.76	6.32
76000.00	.2271826	01	.4010290	04-	197.35	7.95	7.34
77000.00	.1914491	01	.3469024	04-	192.26	8.01	8.06
78000.00	.1607071	01	.2969604	04-	188.53	8.02	7.98
79000.00	.1344379	01	.2534338	04-	184.80	8.05	7.89
80000.00	.1120603	01	.2156013	04-	181.07	8.10	7.85
81000.00	.9305953	00	.1828106	04-	177.34	7.95	9.99
82000.00	.7725454	00	.1492651	04-	180.31	7.76	8.00
83000.00	.6440560	00	.1209183	04-	185.56	8.02	5.14
84000.00	.5396987	00	.9853759	05-	190.81	8.82	3.04
85000.00	.4544504	00	.8075101	05-	196.06	10.17	1.50
86000.00	.3832608	00	.6875833	05-	190.19	11.69	3.91
87000.00	.3226582	00	.5855262	05-	191.97	13.03	6.38
88000.00	.2711118	00	.4977170	05-	189.76	14.17	8.69

FIGURE 14

NATAL, 2 MAY 1966, 0119 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
338.99	3.48	1.74	240.70	.51	34454.45
259.49	29.71	3.91	258.13	.82	40123.55
267.18	35.98	6.22	263.48	1.43	44368.55
258.09	32.07	14.37	264.34	3.52	47874.85
275.88	30.07	15.17	273.49	4.14	51313.25
275.71	44.72	14.09	265.00	3.79	54671.35
269.99	32.44	13.66	250.84	3.58	57926.70
270.09	57.60	16.77	239.48	4.22	61098.35
272.50	34.38	21.69	222.99	5.45	64178.79
295.00	18.15	5.81	207.78	6.06	67171.69
86.52	14.26	42.46	195.54	8.83	70087.09
66.20	29.88	46.12	193.41	11.00	72925.64
177.57	16.39	49.81	206.74	11.12	75657.60
71.18	28.69	34.37	199.51	8.07	78287.65
355.91	15.05	17.12	202.85	5.12	80832.44
221.18	37.01	18.42	209.73	5.49	83294.44
277.84	60.51	49.96	228.34	15.71	85678.05
249.57	23.26	40.77	205.41	15.58	87915.05



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-2.41	3.94
40000.00	5.23	28.60
45000.00	2.64	35.11
50000.00	.62	30.47
55000.00	-4.00	43.28
60000.00	-.05	48.88
65000.00	-3.19	29.43
70000.00	-1.06	-13.31
75000.00	9.53	-7.10
80000.00	-13.13	-8.16
85000.00	2.02	49.82

LEGEND

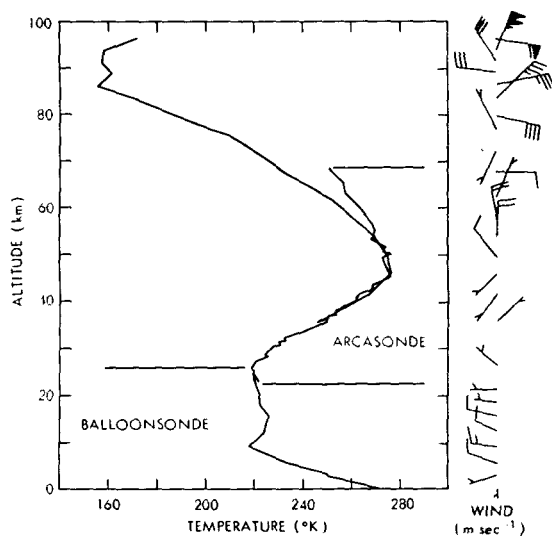
5 m/sec or less
 50 m/sec
 DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)	
29000.00	.1399753	04	.2112863	01-	230.80	.67	1.62-
30000.00	.1209412	04	.1822775	01-	231.15	1.03	.98-
31000.00	.1045809	04	.1561904	01-	233.26	1.41	1.09-
32000.00	.9055761	03	.1340105	01-	235.42	1.85	1.13-
33000.00	.7852098	03	.1151458	01-	237.57	2.33	.50-
34000.00	.6817482	03	.9907652	02-	239.72	2.76	.20
35000.00	.5927790	03	.8520308	02-	242.37	3.16	.67
36000.00	.5162899	03	.7327924	02-	245.45	3.56	.96
37000.00	.4504638	03	.6314518	02-	248.52	3.97	1.26
38000.00	.3937066	03	.5451457	02-	251.60	4.39	1.58
39000.00	.3446784	03	.4714964	02-	254.67	4.82	1.90
40000.00	.3022502	03	.4085249	02-	257.75	5.26	2.24
41000.00	.2653629	03	.3566147	02-	259.23	5.66	3.17
42000.00	.2331471	03	.3118056	02-	260.49	5.99	4.11
43000.00	.2049785	03	.2728146	02-	261.75	6.23	4.97
44000.00	.1803318	03	.2388618	02-	263.01	6.39	5.74
45000.00	.1587274	03	.2097523	02-	263.63	6.45	6.67
46000.00	.1397467	03	.1844991	02-	263.88	6.40	7.63
47000.00	.1230546	03	.1623115	02-	264.12	6.21	8.46
48000.00	.1083812	03	.1426617	02-	264.67	5.94	8.34
49000.00	.9553414	02	.1244991	02-	267.33	5.75	7.06
50000.00	.8431854	02	.1087999	02-	269.99	5.69	5.95
51000.00	.7451373	02	.9520969	03-	272.65	5.75	4.98
52000.00	.6587791	02	.8445478	03-	271.75	5.86	5.44
53000.00	.5819965	02	.7531192	03-	269.22	5.90	6.03
54000.00	.5135825	02	.6708891	03-	266.69	5.91	6.25
55000.00	.4526241	02	.5982743	03-	263.56	5.87	6.69
56000.00	.3981961	02	.5351658	03-	259.21	5.74	7.54
57000.00	.3495683	02	.4778312	03-	254.86	5.48	8.30
58000.00	.3062087	02	.4257354	03-	250.57	5.09	8.92
59000.00	.2676770	02	.3775606	03-	246.99	4.58	9.14
60000.00	.2335445	02	.3342642	03-	243.41	3.98	9.26
61000.00	.2033615	02	.2954117	03-	239.82	3.27	9.29
62000.00	.1766347	02	.2622492	03-	234.65	2.42	9.58
63000.00	.1529373	02	.2323656	03-	229.29	1.44	9.33
64000.00	.1319754	02	.2053093	03-	223.94	.35	8.99
65000.00	.1134952	02	.1806998	03-	218.81	.84-	8.43
66000.00	.9726039	01	.1585336	03-	213.73	2.15-	7.75
67000.00	.8304287	01	.1386559	03-	208.65	3.58-	6.95
68000.00	.7065189	01	.1204787	03-	204.30	5.10-	5.69
69000.00	.5990787	01	.1043010	03-	200.10	6.67-	4.30
70000.00	.5062296	01	.9002466	04-	195.90	8.29-	2.84
71000.00	.4268291	01	.7631415	04-	194.85	9.85-	.16-
72000.00	.3596166	01	.6454585	04-	194.10	11.20-	3.07-
73000.00	.3028586	01	.5445190	04-	193.76	12.32-	5.89-
74000.00	.2555790	01	.4482270	04-	198.64	12.99-	10.62-
75000.00	.2165815	01	.3707285	04-	203.52	13.03-	14.48-
76000.00	.1840763	01	.3116171	04-	205.79	12.53-	16.59-
77000.00	.1564273	01	.2683959	04-	203.04	11.74-	16.38-
78000.00	.1326434	01	.2307113	04-	200.29	10.84-	16.10-
79000.00	.1123616	01	.1952927	04-	200.44	9.69-	16.86-
80000.00	.9524295	00	.1644612	04-	201.75	8.12-	17.72-
81000.00	.8083132	00	.1385036	04-	203.31	6.23-	16.66-
82000.00	.6872353	00	.1161606	04-	206.11	4.13-	15.94-
83000.00	.5856010	00	.9765785	05-	208.90	1.78-	15.08-
84000.00	.5007379	00	.8104962	05-	215.23	.97	15.24-
85000.00	.4303584	00	.6722008	05-	223.04	4.32	15.50-
86000.00	.3711207	00	.5745383	05-	225.03	8.15	13.17-
87000.00	.3191552	00	.5176610	05-	214.79	11.81	5.94-

FIGURE 15

CHURCHILL, 2 MAY 1966, 0232 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
49.38	4.53	2.96	246.27	1.25	35545.35
214.96	6.43	2.80	267.93	1.42	41485.45
223.93	7.28	3.51	277.48	2.24	45952.25
323.16	7.66	6.35	275.29	2.51	49666.45
1.28	19.96	7.23	269.66	2.22	53293.15
354.56	19.67	7.37	263.11	1.98	56821.40
18.65	.79	7.33	252.10	1.11	61913.70
89.49	11.03	15.59	233.05	2.08	67398.45
206.97	3.09	13.33	221.65	1.98	71591.05
336.19	4.52	12.72	210.26	1.64	75622.69
101.55	40.69	14.65	189.33	1.46	79517.94
44.97	34.78	9.17	171.70	.79	83261.35
73.75	32.95	7.01	156.36	.44	86393.70
277.62	30.49	14.47	161.86	1.47	88978.24
326.54	30.32	29.46	158.42	1.83	91473.14
21.45	107.40	26.93	158.94	1.61	93875.10
97.19	61.14	79.59	172.63	3.15	96142.20



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	3.21	1.90
45000.00	5.24	4.76
50000.00	-7.40	4.13
55000.00	-19.77	.67
60000.00	-7.82	.54
65000.00	-.38	-6.31
70000.00	1.67	-3.31
75000.00	-3.07	1.76
80000.00	3.92	-37.89
85000.00	-16.06	-28.49
90000.00	-12.74	24.69
95000.00	-46.56	-49.88

LEGEND

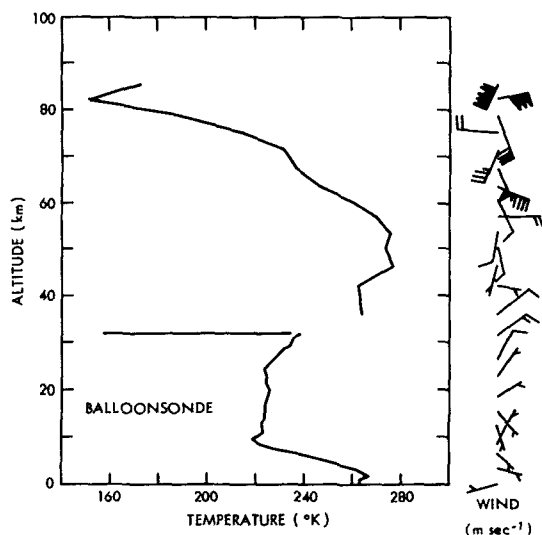
— 5 m/sec or less ▲ 50 m/sec
 | 10 m/sec DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt./sq meter	DENSITY k /cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
31000.00	.1004436	04	.1500943	01-	231.75	2.60-	4.38-
32000.00	.8687295	03	.1288182	01-	234.94	2.28-	4.96-
33000.00	.7528659	03	.1101400	01-	238.13	1.88-	4.83-
34000.00	.6537299	03	.9437102	02-	241.33	1.46-	4.55-
35000.00	.5687275	03	.8107770	02-	244.52	1.02-	4.26-
36000.00	.4957225	03	.6065709	02-	247.92	.56-	4.02-
37000.00	.4320454	03	.5095484	02-	251.57	.06-	3.84-
38000.00	.3788713	03	.5171677	02-	255.22	.46	3.63-
39000.00	.3321929	03	.4470648	02-	258.86	1.02	3.37-
40000.00	.2918134	03	.3872669	02-	262.51	1.62	3.07-
41000.00	.2568111	03	.3361459	02-	266.16	2.26	2.74-
42000.00	.2263682	03	.2931378	02-	269.03	2.91	2.11-
43000.00	.1997755	03	.2566625	02-	271.16	3.53	1.24-
44000.00	.1764867	03	.2249671	02-	273.30	4.12	.40-
45000.00	.1560693	03	.1973993	02-	275.44	4.67	.39
46000.00	.1381464	03	.1734663	02-	277.44	5.18	1.20
47000.00	.1223246	03	.1539266	02-	276.85	5.58	2.85
48000.00	.1082908	03	.1365582	02-	276.26	5.85	3.71
49000.00	.9584561	02	.1211230	02-	275.67	6.09	4.16
50000.00	.8480570	02	.1075268	02-	274.76	6.30	4.71
51000.00	.7499905	02	.9563302	03-	273.21	6.44	5.45
52000.00	.6628252	02	.8500127	03-	271.66	6.51	6.12
53000.00	.5853987	02	.7550343	03-	270.11	6.52	6.29
54000.00	.5166411	02	.6707371	03-	268.34	6.54	6.23
55000.00	.4555917	02	.5955947	03-	266.49	6.56	6.21
56000.00	.4014173	02	.5284526	03-	264.63	6.59	6.19
57000.00	.3533829	02	.4685960	03-	262.72	6.63	6.20
58000.00	.3137989	02	.4155498	03-	260.56	6.66	6.21
59000.00	.2730649	02	.3681545	03-	258.40	6.69	6.42
60000.00	.2396609	02	.3258461	03-	256.23	6.70	6.51
61000.00	.2101193	02	.2881133	03-	254.07	6.70	6.59
62000.00	.1840141	02	.2545991	03-	251.79	6.70	6.38
63000.00	.1609132	02	.2257509	03-	248.32	6.73	6.22
64000.00	.1404526	02	.1998412	03-	244.85	6.80	6.08
65000.00	.1223609	02	.1766049	03-	241.37	6.90	5.97
66000.00	.1063914	02	.1557978	03-	237.90	7.02	5.89
67000.00	.9232004	01	.1371949	03-	234.43	7.18	5.82
68000.00	.7995517	01	.1203703	03-	231.41	7.39	5.59
69000.00	.6912543	01	.1053038	03-	228.69	7.68	5.30
70000.00	.5966132	01	.9198021	04-	225.97	8.07	5.07
71000.00	.5140363	01	.8021460	04-	223.25	8.56	4.93
72000.00	.4420952	01	.6985249	04-	220.49	9.15	4.89
73000.00	.3795101	01	.6074175	04-	217.66	9.86	4.96
74000.00	.3251518	01	.5272554	04-	214.84	10.68	5.13
75000.00	.2780237	01	.4568384	04-	212.02	11.63	5.38
76000.00	.2371529	01	.3967666	04-	208.23	12.68	6.20
77000.00	.2015840	01	.3461942	04-	202.85	13.72	7.84
78000.00	.1706126	01	.3009794	04-	197.48	14.68	9.44
79000.00	.1437440	01	.2606750	04-	192.10	15.53	10.97
80000.00	.1205440	01	.2245090	04-	187.05	16.28	12.31
81000.00	.1006249	01	.1922506	04-	182.34	16.72	15.67
82000.00	.8360605	00	.1639698	04-	177.63	16.62	18.64
83000.00	.6912471	00	.1392607	04-	172.92	15.23	21.09
84000.00	.5685117	00	.1178378	04-	168.07	14.63	23.22
85000.00	.4649161	00	.9925712	05-	163.18	12.70	24.77
86000.00	.3778987	00	.8317555	05-	158.28	10.13	25.69
87000.00	.3060797	00	.6764018	05-	157.64	7.23	22.89
88000.00	.2481716	00	.5411196	05-	159.77	4.51	18.17
89000.00	.2017821	00	.4343869	05-	161.83	2.13	14.01
90000.00	.1641455	00	.3564030	05-	160.45	.14-	12.43
91000.00	.1332997	00	.2919386	05-	159.07	2.68-	12.37
92000.00	.1081214	00	.2376919	05-	158.53	5.56-	11.18
93000.00	.8768645	01-	.1924348	05-	158.74	8.63-	9.15
94000.00	.7117197	01-	.1552711	05-	159.69	11.78-	6.42
95000.00	.5802925	01-	.1219848	05-	165.72	14.67-	.73
96000.00	.4766342	01-	.9667149	06-	171.76	17.08-	4.09-

FIGURE 16

BARROW, 3 MAY 1966, 2201 GMT.

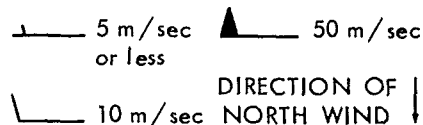
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
54.47	9.47	2.17	264.33	.57	36125.00
99.55	6.55	4.95	263.10	1.18	42138.30
192.58	5.68	6.69	277.31	1.58	46545.40
174.69	7.67	2.61	274.20	.63	50187.05
183.96	11.35	6.12	276.08	1.57	53721.90
89.60	13.81	20.45	270.23	4.87	57148.04
161.74	10.25	24.89	260.62	4.84	60456.40
110.66	43.70	15.41	246.18	3.50	63675.20
150.26	52.35	30.60	237.96	5.83	67300.99
201.18	35.42	35.97	232.27	7.42	71291.74
279.78	21.33	18.36	215.44	6.98	75118.45
162.62	42.05	26.81	187.90	4.87	78808.05
70.69	150.96	41.51	152.28	7.51	82339.80
190.21	211.72	84.73	172.87	16.02	85282.85



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-1.25	-6.90
45000.00	3.98	-1.46
50000.00	7.53	-.61
55000.00	7.06	-4.65
60000.00	8.37	-4.67
65000.00	26.39	-35.43
70000.00	37.05	.24
75000.00	-2.48	20.77
80000.00	9.74	-56.40
85000.00	183.54	20.23

LEGEND

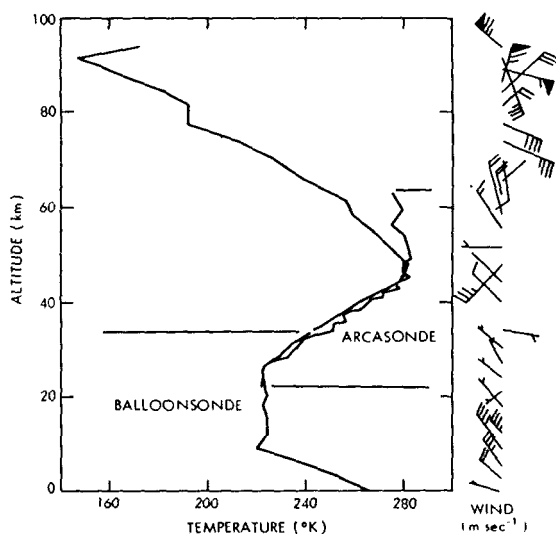


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
31000.00	.1061668	04	.1560033	01-	237.09	2.94
32000.00	.9216757	03	.1324629	01-	242.40	3.66
33000.00	.8026355	03	.1128790	01-	247.72	4.60
34000.00	.7010549	03	.9652251	02-	253.03	5.67
35000.00	.6140805	03	.8280826	02-	258.35	6.87
36000.00	.5393710	03	.7126753	02-	263.66	8.19
37000.00	.4744478	03	.6257407	02-	264.15	9.50
38000.00	.4173835	03	.5509074	02-	263.90	10.67
39000.00	.3671595	03	.4849932	02-	263.74	11.66
40000.00	.3229600	03	.4269406	02-	263.53	12.47
41000.00	.2840649	03	.3758152	02-	263.33	13.11
42000.00	.2498382	03	.3307913	02-	263.12	13.57
43000.00	.2198811	03	.2881148	02-	265.87	13.95
44000.00	.1937999	03	.2508921	02-	269.10	14.33
45000.00	.1710761	03	.2188542	02-	272.32	14.73
46000.00	.1512446	03	.1912191	02-	275.55	15.15
47000.00	.1338543	03	.1683952	02-	276.92	15.54
48000.00	.1184814	03	.1495173	02-	276.06	15.82
49000.00	.1048382	03	.1327118	02-	275.21	16.05
50000.00	.9273440	02	.1177561	02-	274.35	16.23
51000.00	.8202075	02	.1040484	02-	274.63	16.41
52000.00	.7256052	02	.9186955	03-	275.16	16.60
53000.00	.6420901	02	.8113878	03-	275.69	16.84
54000.00	.5682575	02	.7183236	03-	275.60	17.18
55000.00	.5027385	02	.6394608	03-	273.89	17.59
56000.00	.4444504	02	.5688643	03-	272.19	18.02
57000.00	.3926311	02	.5057091	03-	270.48	18.47
58000.00	.3465130	02	.4508556	03-	267.75	18.92
59000.00	.3054198	02	.4017474	03-	264.85	19.33
60000.00	.2688361	02	.3575474	03-	261.94	19.69
61000.00	.2362568	02	.3187998	03-	258.18	19.97
62000.00	.2072020	02	.2845389	03-	253.69	20.14
63000.00	.1813028	02	.2534557	03-	249.20	20.26
64000.00	.1582947	02	.2246864	03-	245.44	20.37
65000.00	.1379811	02	.1976788	03-	242.17	20.54
66000.00	.1201249	02	.1737165	03-	240.90	20.84
67000.00	.1044470	02	.1524791	03-	238.64	21.26
68000.00	.9071404	01	.1333671	03-	236.92	21.84
69000.00	.7871720	01	.1164319	03-	235.53	22.63
70000.00	.6825114	01	.1015662	03-	234.10	23.63
71000.00	.5912770	01	.8852868	04-	232.68	24.87
72000.00	.5114720	01	.7775970	04-	229.15	26.28
73000.00	.4413387	01	.6841476	04-	224.74	27.76
74000.00	.3797319	01	.6003509	04-	220.35	29.26
75000.00	.3257515	01	.5254946	04-	215.96	30.80
76000.00	.2782986	01	.4642060	04-	208.86	32.24
77000.00	.2364444	01	.4090074	04-	201.39	33.39
78000.00	.1996626	01	.3586725	04-	193.93	34.20
79000.00	.1674571	01	.3137053	04-	185.96	34.59
80000.00	.1392243	01	.2757717	04-	175.88	34.30
81000.00	.1145028	01	.2406010	04-	165.79	32.82
82000.00	.9302833	00	.2081389	04-	155.71	29.76
83000.00	.7514611	00	.1668542	04-	156.90	26.03
84000.00	.6103471	00	.1297382	04-	163.89	23.07
85000.00	.5000913	00	.1019512	04-	170.88	21.23

FIGURE 17

CHURCHILL, 4 MAY 1966, 0008 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
104.56	2.08	1.87	243.45	.61	34267.95
314.97	12.09	2.85	262.01	.92	40109.25
312.65	7.04	6.83	277.88	2.23	44499.15
219.12	33.30	9.66	281.41	2.82	48159.69
269.47	2.71	4.14	274.45	2.03	51732.20
324.48	14.61	4.34	266.05	1.07	55207.65
342.58	20.05	6.78	258.70	1.52	58596.50
340.25	17.56	9.98	255.86	2.02	61897.85
49.26	.62	8.80	239.73	1.29	65623.79
178.73	10.66	5.81	228.51	1.06	69750.04
119.66	33.70	7.32	213.12	1.16	73715.45
120.17	40.76	6.97	191.79	1.00	77553.30
45.21	21.04	13.33	192.13	2.06	81232.64
44.11	31.69	22.25	182.15	3.38	84302.14
13.89	65.34	27.34	169.33	3.93	86836.69
109.78	54.62	45.78	155.93	4.84	89288.44
155.82	36.38	90.93	145.95	6.66	91654.14
310.44	76.20	41.09	171.73	9.17	93881.94



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-.61	-.68
40000.00	-8.37	8.35
45000.00	-.58	7.34
50000.00	12.54	11.58
55000.00	-11.18	8.14
60000.00	-18.02	5.97
65000.00	-3.10	.60
70000.00	11.03	-2.06
75000.00	17.95	-31.27
80000.00	-2.99	-21.73
85000.00	-33.95	-20.30
90000.00	22.91	-40.41

LEGEND

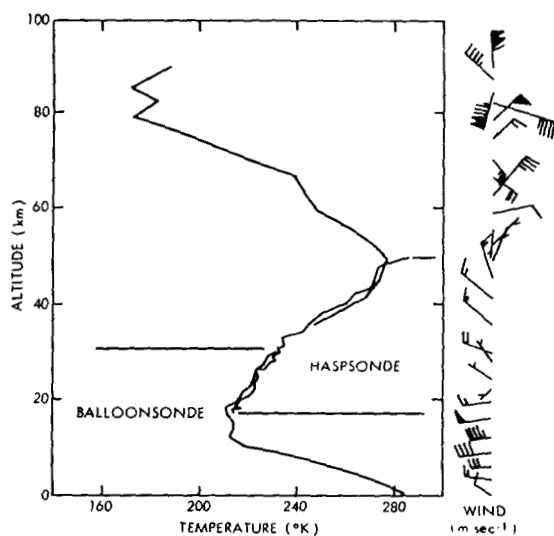
5 m/sec or less
 10 m/sec
 50 m/sec
 DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
29000.00	.1408798	04	.2145585	01-	228.75	1.32	.10-
30000.00	.1215889	04	.1820477	01-	231.53	1.57	.62-
31000.00	.1051296	04	.1562993	01-	234.32	1.94	1.02-
32000.00	.9105908	03	.1337876	01-	237.11	2.42	1.30-
33000.00	.7900788	03	.1147317	01-	239.90	2.96	.86-
34000.00	.6866721	03	.9856934	02-	242.69	3.50	.30-
35000.00	.5978308	03	.8474317	02-	245.77	4.04	.12
36000.00	.5214180	03	.7296804	02-	248.94	4.59	.53
37000.00	.4555808	03	.6295108	02-	252.12	5.15	.95
38000.00	.3987467	03	.5441203	02-	255.30	5.73	1.39
39000.00	.3495928	03	.4711810	02-	258.48	6.31	1.83
40000.00	.3070037	03	.4087510	02-	261.66	6.91	2.29
41000.00	.2700625	03	.3547340	02-	265.22	7.53	2.63
42000.00	.2379856	03	.3083375	02-	268.84	8.19	2.97
43000.00	.2100813	03	.2686258	02-	272.45	8.87	3.36
44000.00	.1857609	03	.2344182	02-	276.07	9.52	3.77
45000.00	.1644778	03	.2058546	02-	278.35	10.31	4.69
46000.00	.1457421	03	.1817756	02-	279.32	10.96	6.04
47000.00	.1291995	03	.1605881	02-	280.28	11.52	7.30
48000.00	.1145861	03	.1419358	02-	281.25	12.01	7.79
49000.00	.1016181	03	.1265392	02-	279.77	12.48	8.82
50000.00	.9005453	02	.1129256	02-	277.82	12.88	9.96
51000.00	.7974200	02	.1006997	02-	275.87	13.17	11.03
52000.00	.7055045	02	.8976678	03-	273.80	13.37	12.07
53000.00	.6235779	02	.8004915	03-	271.38	13.47	12.70
54000.00	.5505780	02	.7131313	03-	268.97	13.54	12.95
55000.00	.4855071	02	.6346677	03-	266.55	13.58	13.18
56000.00	.4278327	02	.5638683	03-	264.33	13.61	13.21
57000.00	.3765568	02	.5003952	03-	262.16	13.62	13.41
58000.00	.3310882	02	.4436443	03-	259.99	13.63	13.50
59000.00	.2908464	02	.3921280	03-	258.35	13.63	13.37
60000.00	.2553453	02	.3454774	03-	257.49	13.68	12.93
61000.00	.2240890	02	.3042055	03-	256.63	13.79	12.55
62000.00	.1965626	02	.2681074	03-	255.41	13.97	12.03
63000.00	.1721770	02	.2388941	03-	251.09	14.21	12.41
64000.00	.1504759	02	.2124462	03-	246.76	14.42	12.78
65000.00	.1312026	02	.1885425	03-	242.43	14.62	13.13
66000.00	.1141407	02	.1665820	03-	238.71	14.82	13.22
67000.00	.9911460	01	.1463187	03-	235.99	15.07	12.86
68000.00	.8592974	01	.1283330	03-	233.27	15.42	12.58
69000.00	.7437759	01	.1123902	03-	230.55	15.86	12.39
70000.00	.6426520	01	.9839047	04-	227.54	16.41	12.40
71000.00	.5540636	01	.8630321	04-	223.66	17.01	12.20
72000.00	.4764700	01	.7552800	04-	219.77	17.64	13.41
73000.00	.4086621	01	.6594436	04-	215.89	18.30	13.96
74000.00	.3494847	01	.5755722	04-	211.53	18.97	14.76
75000.00	.2977820	01	.5036529	04-	205.98	19.57	16.18
76000.00	.2526324	01	.4391365	04-	200.42	20.04	17.54
77000.00	.2133509	01	.3814314	04-	194.86	20.36	18.82
78000.00	.1795130	01	.3260103	04-	191.83	20.66	18.55
79000.00	.1508518	01	.2738268	04-	191.92	21.24	16.57
80000.00	.1267843	01	.2300284	04-	192.01	22.30	15.07
81000.00	.1065716	01	.1932625	04-	192.11	23.62	16.28
82000.00	.8948799	00	.1643993	04-	189.63	24.82	18.95
83000.00	.7494726	00	.1400888	04-	186.38	25.69	21.81
84000.00	.6257711	00	.1190440	04-	183.13	26.18	24.48
85000.00	.5204949	00	.1015181	04-	178.62	26.18	27.61
86000.00	.4307920	00	.8647097	05-	173.56	25.54	30.68
87000.00	.3545671	00	.7333601	05-	168.43	24.21	33.24
88000.00	.2900364	00	.6200076	05-	162.97	22.14	35.40
89000.00	.2356449	00	.5212150	05-	157.50	19.27	36.80
90000.00	.1901851	00	.4332595	05-	152.92	15.69	36.67
91000.00	.1525492	00	.3573826	05-	148.70	11.36	37.56
92000.00	.1221025	00	.2836837	05-	149.95	6.64	32.74
93000.00	.9862885	01-	.2127283	05-	161.52	2.76	20.66

FIGURE 18

WALLOPS ISLAND, 4 MAY 1966, 0037 GMT.

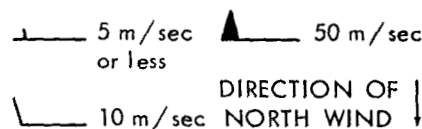
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
309.76	16.70	.75	247.50	.54	35962.35
308.45	15.82	1.00	267.58	.60	41581.94
342.11	16.92	2.06	273.50	.85	45792.10
27.24	3.24	1.39	276.75	1.17	49295.25
40.52	5.14	1.23	270.91	.80	52713.94
183.58	5.53	1.88	260.71	.73	56032.29
78.62	8.70	1.13	248.56	.52	59267.69
36.89	36.72	1.26	242.70	.44	62926.00
121.75	29.52	1.22	239.70	.41	66960.45
142.66	23.94	1.60	217.52	.47	70844.04
48.21	12.58	1.55	195.75	.51	75045.69
47.54	51.25	2.21	173.04	.66	79071.05
105.03	42.61	1.99	182.89	.54	82447.15
196.20	135.20	6.75	171.58	1.59	85285.40
313.66	46.49	10.72	179.25	2.20	87621.60
355.60	111.80	8.34	187.99	1.93	89866.65



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-10.07	12.51
45000.00	-14.92	6.55
50000.00	-3.09	-1.86
55000.00	2.59	-.80
60000.00	-7.25	-11.23
65000.00	-6.28	-23.61
70000.00	18.27	-16.82
75000.00	-8.08	-9.43
80000.00	-22.03	-38.73
85000.00	117.88	29.79

LEGEND

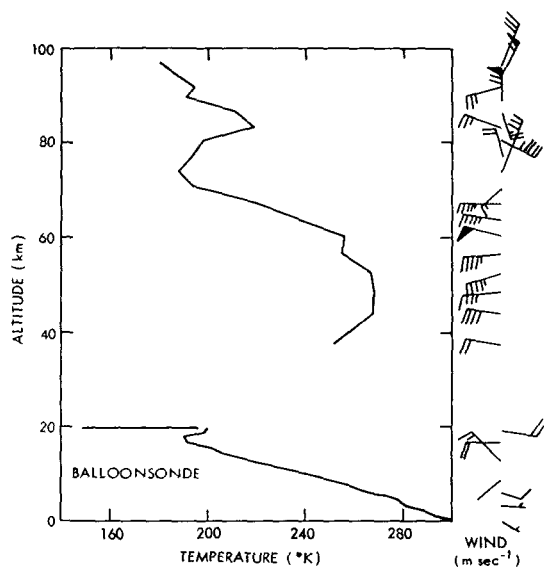


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)	
30000.00	.1224265	04	.1837077	01-	232.17	2.27	.21-
31000.00	.1059170	04	.1571930	01-	234.74	2.70	.46-
32000.00	.9178263	03	.1347398	01-	237.31	3.23	.59-
33000.00	.7966089	03	.1156910	01-	239.88	3.81	.03-
34000.00	.6924761	03	.9950110	02-	242.45	4.38	.63
35000.00	.6028722	03	.8571679	02-	245.02	4.92	1.28
36000.00	.5256505	03	.7394981	02-	247.63	5.44	1.88
37000.00	.4591180	03	.6367146	02-	251.21	5.97	2.11
38000.00	.4017903	03	.5493994	02-	254.78	6.53	2.37
39000.00	.3522888	03	.4750520	02-	258.35	7.13	2.67
40000.00	.3094566	03	.4116032	02-	261.92	7.77	3.01
41000.00	.2723207	03	.3573363	02-	265.49	8.43	3.38
42000.00	.2400094	03	.3118054	02-	268.16	9.11	4.11
43000.00	.2117428	03	.2736468	02-	269.57	9.73	5.29
44000.00	.1869345	03	.2403309	02-	270.98	10.28	6.39
45000.00	.1651458	03	.2112212	02-	272.38	10.76	7.42
46000.00	.1459923	03	.1858321	02-	273.69	11.15	8.41
47000.00	.1291300	03	.1638143	02-	274.62	11.46	9.46
48000.00	.1142668	03	.1444720	02-	275.54	11.70	9.72
49000.00	.1011597	03	.1274720	02-	276.47	11.98	9.62
50000.00	.8955925	02	.1132351	02-	275.54	12.25	10.26
51000.00	.7924576	02	.1008197	02-	273.83	12.47	11.17
52000.00	.7006897	02	.8970384	03-	272.12	12.60	11.99
53000.00	.6190375	02	.7986618	03-	270.03	12.64	12.44
54000.00	.5462694	02	.7128898	03-	266.95	12.65	12.91
55000.00	.4813769	02	.6355180	03-	263.88	12.59	13.33
56000.00	.4235822	02	.5658044	03-	260.81	12.48	13.70
57000.00	.3721152	02	.5042750	03-	257.08	12.28	14.29
58000.00	.3262941	02	.4487352	03-	253.32	11.98	14.80
59000.00	.2855662	02	.3986337	03-	249.56	11.57	15.23
60000.00	.2495352	02	.3514039	03-	247.39	11.09	14.86
61000.00	.2178343	02	.3087612	03-	245.78	10.62	14.23
62000.00	.1899999	02	.2710752	03-	244.18	10.17	13.27
63000.00	.1655826	02	.2377476	03-	242.63	9.83	11.87
64000.00	.1442092	02	.2078256	03-	241.74	9.66	10.32
65000.00	.1255357	02	.1815866	03-	240.84	9.67	8.96
66000.00	.1092285	02	.1585876	03-	239.95	9.88	7.78
67000.00	.9498933	01	.1385369	03-	238.87	10.28	6.86
68000.00	.8244759	01	.1231084	03-	233.31	10.74	8.00
69000.00	.7132120	01	.1090922	03-	227.76	11.10	9.09
70000.00	.6147870	01	.9638816	04-	222.20	11.36	10.11
71000.00	.5279917	01	.8487990	04-	216.71	11.50	11.03
72000.00	.4517545	01	.7440322	04-	211.52	11.54	11.72
73000.00	.3850521	01	.6501013	04-	206.34	11.46	12.34
74000.00	.3268839	01	.5661109	04-	201.16	11.27	12.88
75000.00	.2763337	01	.4912205	04-	195.98	10.95	13.31
76000.00	.2325179	01	.4255353	04-	190.36	10.48	13.90
77000.00	.1946487	01	.3671091	04-	184.72	9.81	14.36
78000.00	.1620602	01	.3152752	04-	179.07	8.93	14.64
79000.00	.1341465	01	.2694598	04-	173.43	7.81	14.71
80000.00	.1108488	01	.2197350	04-	175.74	5.93	9.92
81000.00	.9186062	00	.1791207	04-	178.66	6.56	7.77
82000.00	.7636151	00	.1465058	04-	181.58	6.51	6.01
83000.00	.6354669	00	.1225260	04-	180.68	6.57	6.54
84000.00	.5275250	00	.1040078	04-	176.63	6.37	8.76
85000.00	.4360879	00	.8796418	05-	172.71	5.71	10.57
86000.00	.3539751	00	.7210586	05-	173.92	4.90	8.97
87000.00	.2978936	00	.5856393	05-	177.21	4.36	6.40
88000.00	.2474210	00	.4769507	05-	180.72	4.19	4.16
89000.00	.2062867	00	.3892704	05-	184.61	4.41	2.17

FIGURE 19

NATAL, 4 MAY 1966, 0120 GMT.

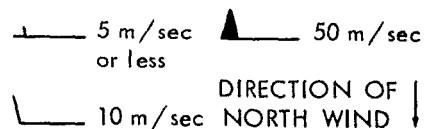
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
280.34	21.32	3.25	251.61	.85	37783.60
277.79	41.23	14.82	267.25	4.61	44029.75
260.52	33.03	28.20	268.30	8.54	48727.04
245.86	42.91	20.28	266.77	6.04	52625.25
263.72	44.96	9.27	255.16	2.93	56429.35
287.51	51.51	5.31	255.58	2.03	60133.20
282.89	44.36	14.39	237.40	5.25	63738.40
270.95	43.86	18.92	218.65	5.81	67247.90
239.77	14.47	12.58	194.22	4.36	70656.45
12.26	30.76	12.31	188.28	3.65	73997.95
347.00	20.95	8.62	194.53	2.78	77210.40
126.05	47.11	7.90	197.83	2.47	80325.20
293.92	23.94	10.04	218.51	5.00	83365.15
168.94	24.15	24.35	211.12	8.07	86283.74
.51	71.02	30.53	191.07	9.32	89116.64
256.41	26.53	58.96	193.85	22.97	91854.59
21.26	57.32	84.35	186.34	27.29	94497.14
18.65	29.06	159.78	180.08	40.68	96984.89



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-4.45	28.02
45000.00	-3.30	39.14
50000.00	9.39	34.72
55000.00	9.66	42.61
60000.00	-14.76	48.96
65000.00	-6.60	43.46
70000.00	5.74	18.54
75000.00	-27.04	-3.02
80000.00	22.69	-33.62
85000.00	9.00	7.03
90000.00	-46.09	7.89
95000.00	-48.18	-18.46

LEGEND

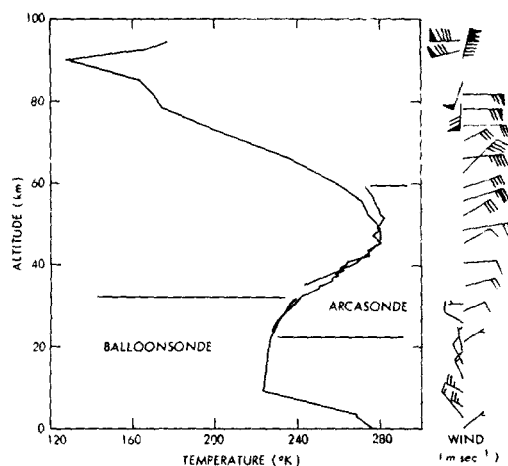


HEIGHT meters	PRESSURE n./sq meter		DENSITY kg./cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
32000.00	.9078919	03	.1338105	01-	236.37	2.11	1.28-
33000.00	.7877824	03	.1148285	01-	239.00	2.66	.77-
34000.00	.6846578	03	.9870890	02-	241.64	3.20	.16-
35000.00	.5957624	03	.8499511	02-	244.27	3.71	.42
36000.00	.5195527	03	.7330722	02-	246.91	4.21	1.00
37000.00	.4536188	03	.6332859	02-	249.54	4.70	1.56
38000.00	.3966707	03	.5480040	02-	252.15	5.16	2.11
39000.00	.3472861	03	.4751102	02-	254.65	5.61	2.68
40000.00	.3044884	03	.4125051	02-	257.15	6.04	3.23
41000.00	.2673160	03	.3586544	02-	259.66	6.44	3.76
42000.00	.2342844	03	.3122650	02-	262.16	6.82	4.26
43000.00	.2068248	03	.2722448	02-	264.66	7.19	4.75
44000.00	.1822658	03	.2372636	02-	267.17	7.53	5.21
45000.00	.1607361	03	.2093664	02-	267.46	7.80	6.47
46000.00	.1417726	03	.1845104	02-	267.68	7.94	7.64
47000.00	.1250640	03	.1626285	02-	267.91	7.95	8.67
48000.00	.1103406	03	.1433625	02-	268.13	7.86	8.88
49000.00	.9736226	02	.1264735	02-	268.19	7.77	8.76
50000.00	.8590522	02	.1117542	02-	267.80	7.67	8.82
51000.00	.7578561	02	.9873410	03-	267.40	7.56	8.86
52000.00	.6684842	02	.8721851	03-	267.01	7.42	8.89
53000.00	.5894272	02	.7730593	03-	265.62	7.25	8.83
54000.00	.5191902	02	.6888564	03-	262.57	7.06	9.10
55000.00	.4566629	02	.6130223	03-	259.52	6.81	9.32
56000.00	.4010727	02	.5448063	03-	256.47	6.50	9.48
57000.00	.3518806	02	.4803176	03-	255.22	6.18	8.86
58000.00	.3086478	02	.4211165	03-	255.34	5.92	7.74
59000.00	.2707519	02	.3692467	03-	255.45	5.78	6.73
60000.00	.2375331	02	.3237988	03-	255.56	5.75	5.84
61000.00	.2081696	02	.2886675	03-	251.23	5.71	6.80
62000.00	.1819913	02	.2575099	03-	246.21	5.52	7.60
63000.00	.1586720	02	.2291855	03-	241.19	5.25	7.84
64000.00	.1379447	02	.2035598	03-	236.08	4.89	8.06
65000.00	.1195540	02	.1805267	03-	230.71	4.44	8.32
66000.00	.1032713	02	.1596551	03-	225.34	3.88	8.51
67000.00	.8889591	01	.1407853	03-	219.98	3.21	8.59
68000.00	.7620545	01	.1244914	03-	213.25	2.35	9.21
69000.00	.6499721	01	.1098743	03-	206.09	1.25	9.87
70000.00	.5512894	01	.9655053	04-	198.92	.13-	10.29
71000.00	.4651747	01	.8370575	04-	193.60	1.75-	9.50
72000.00	.3913112	01	.7106699	04-	191.82	3.38-	6.71
73000.00	.3286645	01	.6024794	04-	190.05	4.85-	4.11
74000.00	.2756109	01	.5099762	04-	188.27	6.17-	1.68
75000.00	.2311529	01	.4233391	04-	190.22	7.18-	2.34-
76000.00	.1942241	01	.3521057	04-	192.17	7.71-	5.75-
77000.00	.1634900	01	.2934181	04-	194.11	7.76-	8.59-
78000.00	.1378212	01	.2457710	04-	195.36	7.36-	10.63-
79000.00	.1163057	01	.2062830	04-	196.42	6.52-	12.18-
80000.00	.9824390	00	.1733119	04-	197.48	5.22-	13.30-
81000.00	.8320088	00	.1431961	04-	202.42	3.48-	13.84-
82000.00	.7079900	00	.1178898	04-	209.22	1.24-	14.69-
83000.00	.6056062	00	.9766629	05-	216.02	1.57	15.07-
84000.00	.5194974	00	.8344051	05-	216.90	4.75	12.74-
85000.00	.4453902	00	.7238188	05-	214.37	7.97	9.01-
86000.00	.3811758	00	.6268600	05-	211.84	11.08	5.26-
87000.00	.3252233	00	.5498739	05-	206.05	13.93	.09-
88000.00	.2760997	00	.4834337	05-	198.97	16.27	5.57
89000.00	.2330212	00	.4230643	05-	191.88	17.95	11.04
90000.00	.1960729	00	.3558456	05-	191.96	19.28	12.25
91000.00	.1650706	00	.2979994	05-	192.98	20.50	14.70
92000.00	.1390689	00	.2504657	05-	193.43	21.46	17.20
93000.00	.1170441	00	.2139427	05-	190.59	21.95	21.35
94000.00	.9825781	01-	.1823231	05-	187.75	21.78	24.96
95000.00	.8227794	01-	.1548815	05-	185.07	20.97	27.89
96000.00	.6872809	01-	.1311589	05-	182.55	19.56	30.11

FIGURE 20

CHURCHILL, 17 JUNE 1966, 0313 GMT.

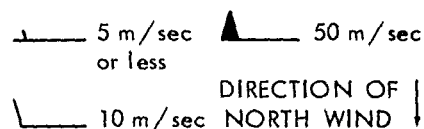
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
70.87	21.16	1.53	243.19	.66	35019.95
86.24	11.73	2.33	267.69	1.18	40874.50
61.42	10.24	3.42	278.85	1.17	45266.80
78.43	18.65	4.38	279.71	1.40	48923.95
59.05	30.32	6.01	274.44	1.67	52498.15
71.66	36.76	8.51	270.78	2.09	55975.90
69.30	40.52	7.92	261.21	1.74	59356.75
49.31	33.57	8.76	248.56	1.62	62658.40
80.07	47.25	7.95	235.22	1.25	66388.85
64.74	31.41	8.68	213.79	1.06	70508.80
88.82	27.64	7.39	192.79	.78	74467.35
90.07	69.76	5.43	174.13	.43	78293.15
88.91	62.77	9.71	169.59	.66	81963.35
197.81	47.84	17.57	163.60	1.19	85038.30
181.12	70.82	15.62	147.29	1.01	87573.45
7.98	191.57	10.26	126.76	.62	90017.20
259.07	79.90	24.53	164.69	1.69	92371.55
268.62	129.35	28.74	177.19	2.21	94594.49



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-1.68	-12.94
45000.00	-4.64	-9.15
50000.00	-7.30	-20.60
55000.00	-12.69	-32.40
60000.00	-15.79	-35.47
65000.00	-13.26	-38.69
70000.00	-12.75	-30.64
75000.00	-.47	-33.50
80000.00	-.51	-66.50
85000.00	44.96	13.66
90000.00	-187.88	-26.39

LEGEND

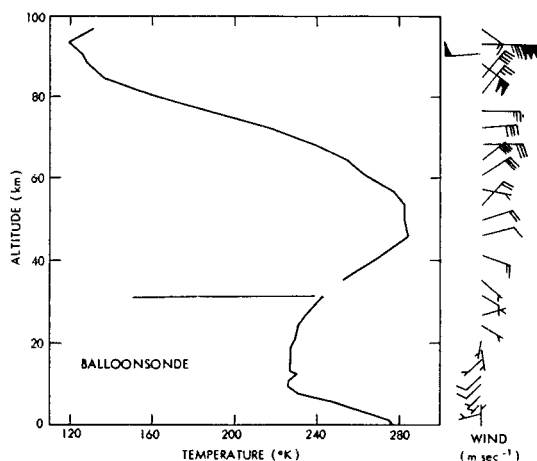


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE deviation (%)	DENSITY deviation (%)
30000.00	.1298000	04	.1920098	01-	235.51	8.43	4.29
31000.00	.1124604	04	.1652855	01-	237.04	9.05	4.66
32000.00	.9753153	03	.1424244	01-	238.57	9.70	5.07
33000.00	.8466524	03	.1228476	01-	240.10	10.34	6.15
34000.00	.7356560	03	.1060660	01-	241.63	10.89	7.27
35000.00	.6358063	03	.92166573	02-	243.16	11.35	8.30
36000.00	.5573650	03	.7852022	02-	247.29	11.80	8.18
37000.00	.4866849	03	.6742221	02-	251.48	12.33	8.12
38000.00	.4258377	03	.5804096	02-	255.66	12.94	8.15
39000.00	.3735958	03	.5008876	02-	259.84	13.61	8.26
40000.00	.3283862	03	.4332970	02-	264.03	14.36	8.44
41000.00	.2892309	03	.3755683	02-	268.01	15.17	8.77
42000.00	.2551463	03	.3285485	02-	270.55	15.99	9.70
43000.00	.2253510	03	.2874827	02-	273.09	16.79	10.61
44000.00	.1992717	03	.2518706	02-	275.63	17.56	11.50
45000.00	.1764161	03	.2209462	02-	278.17	18.32	12.36
46000.00	.1563039	03	.1951611	02-	279.02	19.00	13.85
47000.00	.1385226	03	.1728138	02-	279.25	19.56	15.47
48000.00	.1227816	03	.1530473	02-	279.48	20.02	16.23
49000.00	.1088419	03	.1356204	02-	279.59	20.48	16.63
50000.00	.9645880	02	.1208270	02-	279.12	20.90	17.66
51000.00	.8543302	02	.1075852	02-	276.65	21.25	18.63
52000.00	.7562132	02	.9573902	03-	275.17	21.52	19.52
53000.00	.6688848	02	.8508604	03-	273.91	21.73	19.79
54000.00	.5915330	02	.7552612	03-	272.86	21.98	19.62
55000.00	.5228184	02	.6701186	03-	271.80	22.29	19.50
56000.00	.4618776	02	.5944091	03-	270.70	22.65	19.45
57000.00	.4076873	02	.5302113	03-	267.87	23.02	20.17
58000.00	.3523924	02	.4723920	03-	265.04	23.34	20.86
59000.00	.3164027	02	.4203733	03-	262.21	23.62	21.51
60000.00	.2781373	02	.3744952	03-	258.74	23.83	22.41
61000.00	.2440615	02	.3335535	03-	254.91	23.94	23.41
62000.00	.2137459	02	.2965795	03-	251.08	23.94	23.93
63000.00	.1868266	02	.2631527	03-	247.33	23.92	23.82
64000.00	.1629772	02	.2329283	03-	243.76	23.93	23.65
65000.00	.1418916	02	.2058126	03-	240.18	23.96	23.50
66000.00	.1232829	02	.1815241	03-	236.60	24.01	23.37
67000.00	.1068578	02	.1604375	03-	232.03	24.06	23.75
68000.00	.9234355	01	.1418240	03-	226.83	24.03	24.41
69000.00	.7953471	01	.1250177	03-	221.63	23.90	25.01
70000.00	.6826338	01	.1098787	03-	216.43	23.65	25.52
71000.00	.5837372	01	.9629687	04-	211.18	23.28	25.97
72000.00	.4972189	01	.8413840	04-	205.87	22.76	26.34
73000.00	.4217748	01	.7326014	04-	200.57	22.09	26.60
74000.00	.3562214	01	.6355528	04-	195.26	21.26	26.72
75000.00	.2995068	01	.5486311	04-	190.18	20.26	26.55
76000.00	.2506808	01	.4712760	04-	185.31	19.11	26.14
77000.00	.2088329	01	.4032130	04-	180.43	17.81	25.61
78000.00	.1731126	01	.3435286	04-	175.55	16.36	24.92
79000.00	.1429588	01	.2874620	04-	173.25	14.90	22.37
80000.00	.1178334	01	.2386419	04-	172.02	13.67	19.38
81000.00	.9699435	00	.1978593	04-	170.78	12.51	19.05
82000.00	.7973165	00	.1638558	04-	169.52	11.21	18.56
83000.00	.6542297	00	.1360139	04-	167.57	9.72	18.27
84000.00	.5356137	00	.1126640	04-	165.62	8.00	17.81
85000.00	.4374939	00	.9312065	05-	163.67	6.05	17.05
86000.00	.3555187	00	.7868311	05-	157.41	3.61	18.91
87000.00	.2864639	00	.6610221	05-	150.97	.35	20.09
88000.00	.2285276	00	.5540240	05-	143.70	3.76-	20.99
89000.00	.1800181	00	.4635190	05-	135.30	8.88-	21.65
90000.00	.1396637	00	.3834190	05-	126.90	15.03-	20.95
91000.00	.1090888	00	.2665302	05-	142.59	20.36-	2.59
92000.00	.8746800	01-	.1920109	05-	158.70	23.60-	10.15-
93000.00	.7137171	01-	.1478080	05-	168.22	25.63-	16.16-
94000.00	.5877014	01-	.1177717	05-	173.85	27.16-	19.28-

FIGURE 21

BARROW, 17 JUNE 1966, 0318 GMT.

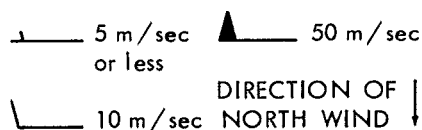
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
124.58	6.87	2.34	251.72	.47	35438.30
104.88	13.92	3.70	272.11	.84	41526.80
78.39	9.81	4.03	284.03	.98	46117.00
69.94	22.22	2.44	281.61	.60	49940.55
40.78	22.43	5.76	281.67	1.34	53664.55
102.96	6.17	7.60	276.58	1.41	57304.45
59.00	27.70	3.37	263.49	.72	60854.70
51.04	37.95	4.37	254.92	.87	64316.04
89.39	30.89	3.28	238.22	.71	68239.24
81.47	41.07	3.83	215.50	.63	72584.65
91.28	24.79	7.91	185.95	1.05	76775.04
27.18	22.74	10.87	160.07	1.25	80840.10
29.71	41.48	15.34	136.86	1.47	84743.50
124.76	97.69	22.51	128.56	2.02	88019.10
265.67	48.73	43.52	125.77	3.64	90726.24
93.08	172.74	34.68	119.23	3.40	93332.40
122.87	13.54	77.20	131.22	5.22	96988.90



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	3.65	-11.49
45000.00	-.62	-10.54
50000.00	-7.77	-20.76
55000.00	-10.24	-11.48
60000.00	-10.50	-19.47
65000.00	-19.75	-29.75
70000.00	-2.66	-34.83
75000.00	-2.26	-31.49
80000.00	-15.93	-13.36
85000.00	-28.84	-25.23
90000.00	17.63	14.02
95000.00	8.39	-99.01

LEGEND

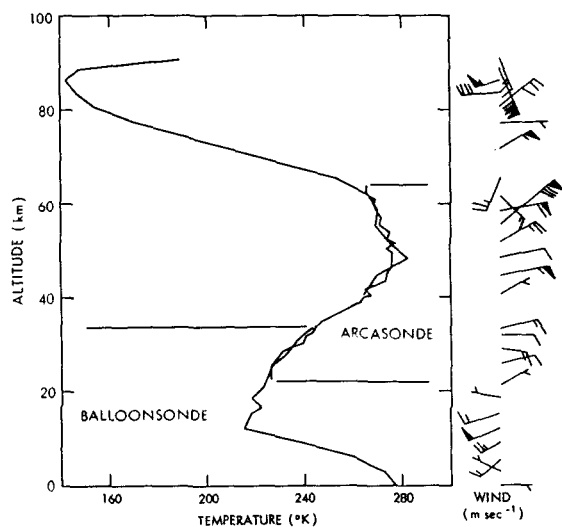


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
31000.00	.1172377	04	.1695535	01-	240.89	13.68	7.36
32000.00	.1010106	04	.1450221	01-	243.33	14.63	7.65
33000.00	.8873072	03	.1257780	01-	245.76	15.63	8.68
34000.00	.7735761	03	.1085786	01-	248.20	16.60	9.71
35000.00	.6753565	03	.9386004	02-	250.64	17.53	10.91
36000.00	.5904885	03	.8111896	02-	253.50	18.44	11.76
37000.00	.5171622	03	.7011969	02-	256.24	19.36	12.45
38000.00	.4537397	03	.6072883	02-	260.29	20.31	13.16
39000.00	.3987770	03	.5269456	02-	263.64	21.27	13.89
40000.00	.3510578	03	.4580700	02-	266.39	22.25	14.64
41000.00	.3095524	03	.3989085	02-	270.34	23.26	15.41
42000.00	.2733659	03	.3484184	02-	273.33	24.27	16.34
43000.00	.2417245	03	.3051900	02-	275.93	25.27	17.43
44000.00	.2140002	03	.2673672	02-	278.53	26.25	18.49
45000.00	.1896771	03	.2350526	02-	281.13	27.21	19.54
46000.00	.1683115	03	.2066665	02-	283.72	28.15	20.56
47000.00	.1494314	03	.1836495	02-	283.47	28.98	22.71
48000.00	.1326494	03	.1633899	02-	282.83	29.67	24.09
49000.00	.1177252	03	.1453327	02-	282.20	30.31	24.98
50000.00	.1044567	03	.1292251	02-	281.61	30.93	25.84
51000.00	.9257200	02	.1146475	02-	281.62	31.53	26.41
52000.00	.8223231	02	.1017181	02-	281.64	32.14	26.99
53000.00	.7296587	02	.9025025	03-	281.66	32.77	27.06
54000.00	.6473868	02	.8020451	03-	281.20	33.50	27.03
55000.00	.5741858	02	.7149151	03-	279.80	30.30	27.49
56000.00	.5089748	02	.6369071	03-	278.40	35.16	27.99
57000.00	.4509128	02	.5671021	03-	277.00	36.06	28.53
58000.00	.3991038	02	.5074226	03-	274.01	36.97	29.82
59000.00	.3527321	02	.4545838	03-	270.32	37.81	31.40
60000.00	.3112320	02	.4066484	03-	266.63	38.56	32.92
61000.00	.2741586	02	.3629897	03-	263.12	39.22	34.30
62000.00	.2411615	02	.3223312	03-	260.65	39.83	34.69
63000.00	.2118850	02	.2859143	03-	258.18	40.55	34.53
64000.00	.1859384	02	.2533295	03-	255.70	41.39	34.48
65000.00	.1629169	02	.2252176	03-	252.01	42.33	35.14
66000.00	.1424517	02	.2003105	03-	247.75	43.30	36.14
67000.00	.1242730	02	.1778039	03-	243.49	44.28	37.15
68000.00	.1081580	02	.1575014	03-	239.23	45.27	38.17
69000.00	.9388150	01	.1376280	03-	234.24	46.25	39.62
70000.00	.8123879	01	.1235836	03-	229.01	47.16	41.18
71000.00	.7096737	01	.1090739	03-	223.78	47.97	42.63
72000.00	.6022308	01	.9599004	04-	218.55	48.69	44.15
73000.00	.5156233	01	.8452666	04-	212.56	49.26	46.03
74000.00	.4393514	01	.7447693	04-	205.51	49.56	48.50
75000.00	.3722943	01	.6535201	04-	198.46	49.40	50.75
76000.00	.3136040	01	.5707758	04-	191.41	49.01	52.77
77000.00	.2625039	01	.4956308	04-	184.51	48.09	54.40
78000.00	.2183184	01	.4269362	04-	178.14	46.74	55.24
79000.00	.1803672	01	.3657927	04-	171.78	44.96	55.72
80000.00	.1479512	01	.3116006	04-	165.41	42.72	55.87
81000.00	.1204339	01	.2636882	04-	159.11	39.70	58.65
82000.00	.9725323	00	.2211999	04-	153.17	35.65	60.05
83000.00	.7787764	00	.1842840	04-	147.22	30.61	60.24
84000.00	.6179801	00	.1523885	04-	141.27	24.61	59.35
85000.00	.0850419	00	.1242895	04-	136.20	17.80	56.24
86000.00	.3795732	00	.9892280	05-	133.67	10.62	49.40
87000.00	.2951131	00	.7839634	05-	131.14	3.39	42.43
88000.00	.2283413	00	.6185293	05-	128.61	3.84	35.08
89000.00	.1760577	00	.4808725	05-	127.55	10.88	26.21
90000.00	.1354659	00	.3730232	05-	126.51	17.50	17.67
91000.00	.1039735	00	.2895933	05-	125.08	24.09	11.46
92000.00	.7947277	01-	.2258821	05-	122.57	30.58	5.70
93000.00	.6041404	01-	.1752996	05-	120.06	37.05	5.56
94000.00	.4587006	01-	.1316124	05-	121.42	43.14	9.79
95000.00	.3501091	01-	.9781318	06-	124.70	48.52	19.23
96000.00	.2691277	01-	.7326211	06-	127.97	53.18	27.32

FIGURE 22

CHURCHILL, 23 JUNE 1966, 0635 GMT.

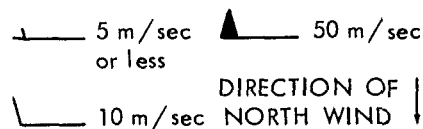
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
64.09	5.36	9.99	263.76	2.89	40419.85
81.18	54.68	12.28	269.00	3.97	44749.40
80.41	8.66	8.37	282.42	2.12	48346.75
61.86	26.96	5.29	274.57	1.28	51861.90
50.31	79.56	18.77	268.67	3.11	55278.85
82.32	59.90	26.00	269.58	3.93	58616.44
128.98	16.53	15.06	266.14	2.30	61862.90
200.22	26.66	7.24	253.50	.91	65516.50
67.39	55.93	7.37	209.72	.32	71458.85
88.74	3.80	11.70	170.40	.34	77206.64
55.71	107.83	39.44	153.69	.28	80804.59
263.61	38.86	41.48	146.20	.46	83795.09
248.52	52.76	26.16	141.87	.10	86262.99
151.44	122.09	12.97	146.88	.09	88650.10
168.42	63.86	41.11	188.63	.02	90949.60



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.00	-7.89	-50.86
50000.00	-6.74	-15.70
55000.00	-47.70	-58.16
60000.00	-.15	-39.53
65000.00	22.95	6.09
70000.00	-10.08	-36.69
75000.00	-8.30	-22.16
80000.00	-47.18	-70.01
85000.00	11.64	43.73
90000.00	81.00	-31.62

LEGEND



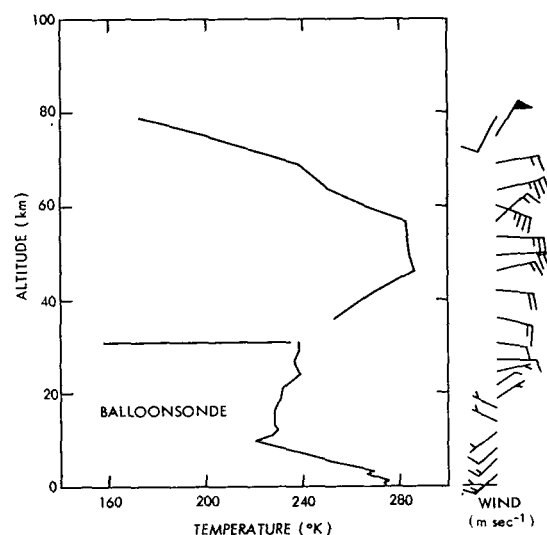
HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (β)	DENSITY deviation (δ)
36000.00	.5648619	03	.7848635	02-	250.73	13.30	8.13
37000.00	.4939793	03	.6784003	02-	253.67	14.41	8.79
38000.00	.4326790	03	.5873906	02-	256.62	14.72	9.45
39000.00	.3795750	03	.5094481	02-	259.57	15.43	10.11
40000.00	.3334046	03	.4425766	02-	262.51	16.14	10.76
41000.00	.2933724	03	.3864748	02-	265.45	16.82	11.81
42000.00	.2582844	03	.3387002	02-	268.39	17.41	13.09
43000.00	.2275337	03	.2970211	02-	268.88	17.92	14.28
44000.00	.2005672	03	.2606362	02-	268.99	18.33	15.38
45000.00	.1769301	03	.2283502	02-	269.13	18.86	16.13
46000.00	.1562852	03	.1983556	02-	273.66	18.99	16.06
47000.00	.1382866	03	.1736751	02-	277.37	17.36	16.05
48000.00	.1225657	03	.1518882	02-	281.12	19.21	15.35
49000.00	.1087189	03	.1348022	02-	280.26	20.74	15.93
50000.00	.9639076	02	.1204797	02-	278.79	20.92	17.79
51000.00	.8538104	02	.1075212	02-	276.47	21.72	18.62
52000.00	.7555850	02	.9595581	03-	274.32	21.42	17.79
53000.00	.6681047	02	.8538323	03-	272.60	21.57	20.20
54000.00	.5807140	02	.7502220	03-	270.87	21.73	20.24
55000.00	.5211888	02	.6746149	03-	269.15	21.91	20.30
56000.00	.4599507	02	.5959028	03-	268.36	22.11	19.76
57000.00	.4059415	02	.5254660	03-	269.17	22.49	19.09
58000.00	.3587266	02	.4623620	03-	269.41	22.97	18.55
59000.00	.3163095	02	.4093916	03-	269.17	23.58	18.70
60000.00	.2791467	02	.3627200	03-	268.11	24.28	18.56
61000.00	.2462378	02	.3212276	03-	267.05	25.74	18.25
62000.00	.2170920	02	.2846856	03-	265.66	25.88	18.36
63000.00	.1911820	02	.2540162	03-	262.20	26.81	19.52
64000.00	.1680870	02	.2263179	03-	258.74	27.81	20.14
65000.00	.1475320	02	.2013344	03-	255.28	28.83	20.81
66000.00	.1292014	02	.1800927	03-	249.93	29.77	22.40
67000.00	.1127656	02	.1619572	03-	242.56	30.92	24.72
68000.00	.0980161	01	.1451782	03-	235.20	31.65	27.36
69000.00	.08481423	01	.1296911	03-	227.83	32.12	29.69
70000.00	.07304837	01	.1154326	03-	220.46	32.32	31.87
71000.00	.06259914	01	.1023406	03-	213.09	32.20	33.88
72000.00	.05336252	01	.9023924	04-	206.01	31.75	35.50
73000.00	.04524224	01	.7913502	04-	199.17	30.96	36.75
74000.00	.03813879	01	.6808310	04-	192.33	29.83	37.75
75000.00	.03195447	01	.6001529	04-	185.40	28.31	38.44
76000.00	.02659690	01	.5186570	04-	178.65	26.38	38.82
77000.00	.02198083	01	.4457068	04-	171.81	24.01	38.64
78000.00	.01804547	01	.3770766	04-	166.71	21.29	37.12
79000.00	.01472075	01	.3166764	04-	162.07	18.38	34.78
80000.00	.1125263	01	.2645061	04-	157.42	15.30	32.31
81000.00	.0642348	00	.2192656	04-	153.20	11.85	31.92
82000.00	.07742289	00	.1782866	04-	150.69	7.92	27.51
83000.00	.06104231	00	.1456023	04-	148.19	3.88	26.62
84000.00	.04937820	00	.1179556	04-	145.83	1.3-	23.74
85000.00	.03923922	00	.09487676	05-	144.08	4.87-	19.26
86000.00	.03109666	00	.07611561	05-	142.37	0.37-	15.07
87000.00	.02463222	00	.05983568	05-	143.41	13.70-	6.71
88000.00	.01956318	00	.04683612	05-	145.57	17.61-	2.88
89000.00	.01565576	00	.03552664	05-	153.27	20.75-	6.57-
90000.00	.01275191	00	.02592076	05-	171.39	22.42-	10.23-

FIGURE 23

BARROW, 23 JUNE 1966, 0752 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
103.63	14.88		253.44		36045.65
95.77	19.12		268.73		41849.25
79.43	13.35	5.40	285.76	1.22	46197.15
87.70	18.89	6.75	284.29	1.58	49839.00
92.88	25.04	7.00	283.53	1.48	53377.85
48.16	15.42	4.89	282.89	1.11	56806.90
113.15	34.20	8.78	265.02	1.37	60152.25
73.60	33.05	12.19	251.27	2.28	63405.40
77.22	12.93		237.53		69081.44
25.69	49.98		199.12		75067.89
203.58	8.42	19.52	171.79	3.21	78867.74

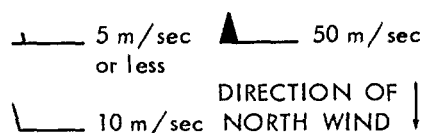
Insufficient data for Error Analysis for layers 1,2,9 and 10



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	2.42	-17.56
45000.00	-1.24	-14.74
50000.00	-.66	-19.19
55000.00	-4.18	-19.07
60000.00	12.36	-30.53
65000.00	-7.51	-26.33
70000.00	-9.33	-13.99
75000.00	-44.56	-21.56

LEGEND

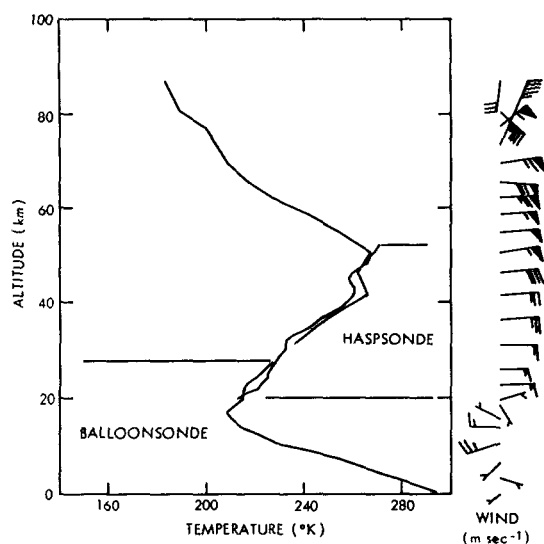


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
30000.00	.1372179	04	.2002619	01-	238.71	14.63	8.77
31000.00	.1191322	04	.1721101	01-	241.14	15.52	8.38
32000.00	.1035813	04	.1481476	01-	243.58	16.50	9.23
33000.00	.0912069	03	.1277174	01-	246.02	17.54	10.25
34000.00	.7864132	03	.1102704	01-	248.45	18.54	11.52
35000.00	.6866557	03	.9534743	02-	250.89	19.50	12.65
36000.00	.6003643	03	.8256338	02-	253.32	20.42	13.75
37000.00	.5256396	03	.7154569	02-	255.95	21.32	14.74
38000.00	.4608605	03	.6208249	02-	258.58	22.19	15.69
39000.00	.4046199	03	.5396276	02-	261.22	23.05	16.63
40000.00	.3557211	03	.4696767	02-	263.85	23.88	17.54
41000.00	.3131447	03	.4093739	02-	266.49	24.69	18.43
42000.00	.2760335	03	.3570700	02-	269.31	25.48	19.23
43000.00	.2437114	03	.3107402	02-	273.23	26.30	19.56
44000.00	.2155640	03	.2709674	02-	277.15	27.17	19.35
45000.00	.1910033	03	.2367487	02-	281.06	28.10	20.40
46000.00	.1695308	03	.2072458	02-	284.98	29.07	20.90
47000.00	.1506155	03	.1838328	02-	285.43	30.00	22.84
48000.00	.1338166	03	.1635597	02-	285.03	30.81	24.21
49000.00	.1188758	03	.1455035	02-	284.62	31.59	25.13
50000.00	.1055901	03	.1294111	02-	284.25	32.35	26.02
51000.00	.9378074	02	.1150246	02-	284.04	33.10	26.83
52000.00	.8328824	02	.1022327	02-	283.82	33.84	27.63
53000.00	.7396549	02	.9085826	03-	283.61	34.59	27.91
54000.00	.6568296	02	.8074031	03-	283.41	35.45	27.88
55000.00	.5832543	02	.7174341	03-	283.22	36.42	27.94
56000.00	.5178980	02	.6374630	03-	283.04	37.53	28.10
57000.00	.4597521	02	.5629660	03-	281.85	38.73	28.79
58000.00	.4075810	02	.5135140	03-	276.51	39.88	31.38
59000.00	.3604958	02	.4631321	03-	271.17	40.85	33.87
60000.00	.3180847	02	.4168631	03-	265.83	41.61	36.26
61000.00	.2800264	02	.3731575	03-	261.43	42.20	38.06
62000.00	.2460099	02	.3332149	03-	257.20	42.64	39.24
63000.00	.2156711	02	.2970024	03-	252.58	43.06	39.75
64000.00	.1887170	02	.2631629	03-	249.83	43.50	39.70
65000.00	.1648918	02	.2321880	03-	247.41	44.05	39.32
66000.00	.1438895	02	.2046155	03-	244.98	44.74	39.07
67000.00	.1253979	02	.1800989	03-	242.57	45.59	38.92
68000.00	.1091368	02	.1583238	03-	240.14	46.53	38.89
69000.00	.0485500	01	.1390061	03-	237.73	47.77	39.00
70000.00	.8223582	01	.1236821	03-	231.67	48.96	41.29
71000.00	.7102049	01	.1098575	03-	225.22	49.99	43.71
72000.00	.6107817	01	.9724886	04-	218.80	50.80	46.02
73000.00	.5222495	01	.8577960	04-	212.39	51.38	48.23
74000.00	.4456422	01	.7537614	04-	205.97	51.70	50.20
75000.00	.3778647	01	.6596724	04-	199.55	51.72	52.17
76000.00	.3185879	01	.5768262	04-	192.41	51.38	54.39
77000.00	.2668902	01	.5019888	04-	185.22	50.57	56.38
78000.00	.2220315	01	.4344873	04-	178.03	49.24	57.39

FIGURE 24

WALLOPS ISLAND, 7 AUG. 1966, 0700 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
93.71	16.20	.99	236.14	.57	31061.75
87.41	26.49	.81	248.83	.95	36318.95
86.12	25.42	.69	265.64	.48	41861.75
83.61	39.26	.80	262.33	.56	46356.90
77.07	53.71	.56	266.79	.39	50513.54
85.84	47.91	.45	254.01	.41	55006.60
83.30	56.75	1.37	241.19	.58	58744.85
87.10	75.92	1.01	226.99	.48	62293.60
96.03	82.19	1.48	216.03	.60	65713.35
79.64	66.06	1.25	209.21	.98	69434.49
21.94	47.41	2.74	204.01	.65	73466.19
51.81	56.08	1.90	199.47	.53	77260.69
132.75	47.26	3.19	188.84	1.74	80488.35
182.77	28.91	26.30	182.67	5.75	86900.75



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-.63	-23.88
40000.00	-1.54	-25.73
45000.00	-3.57	-34.89
50000.00	-11.07	-50.69
55000.00	-3.49	-47.79
60000.00	-5.64	-63.24
65000.00	6.03	-80.49
70000.00	-16.38	-58.35
75000.00	-40.21	-28.37
80000.00	21.98	-36.12
85000.00	29.82	-9.30

LEGEND

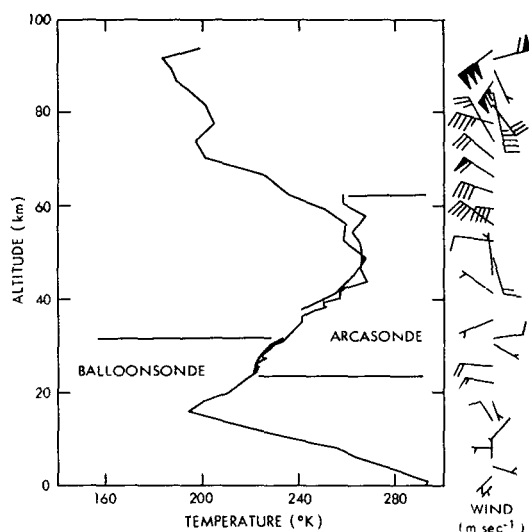
5 m/sec or less 50 m/sec
 10 m/sec DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
27000.00	.1973611	04	.3048299	01-	225.56	4.98
28000.40	.1700053	04	.2595794	01-	228.16	5.18
29000.00	.1466963	04	.2214600	01-	230.77	5.50
30000.00	.1267988	04	.1892844	01-	233.37	5.92
31000.00	.1097826	04	.1620730	01-	235.98	6.45
32000.00	.9519951	03	.1391145	01-	238.40	7.07
33000.00	.8267610	03	.1196036	01-	240.82	7.74
34000.00	.7190429	03	.1029886	01-	243.23	8.38
35000.00	.6262487	03	.8881665	02-	245.64	8.99
36000.00	.5461902	03	.7670901	02-	248.05	9.56
37000.00	.4770721	03	.6624454	02-	250.89	10.11
38000.00	.4173744	03	.5726269	02-	253.92	10.66
39000.00	.3657414	03	.4958642	02-	256.96	11.22
40000.00	.3210064	03	.4301353	02-	259.99	11.79
41000.00	.2821811	03	.3737501	02-	263.03	12.36
42000.00	.2483974	03	.7258909	02-	265.54	12.92
43000.00	.2187603	03	.2878078	02-	264.80	13.77
44000.00	.1925986	03	.2540969	02-	264.06	13.63
45000.00	.1695119	03	.2242653	02-	263.32	13.68
46000.00	.1491450	03	.1978744	02-	262.59	13.55
47000.00	.1312208	03	.1738109	02-	263.01	13.66
48000.00	.1154974	03	.1523618	02-	264.49	12.90
49000.00	.1017148	03	.1336364	02-	265.16	12.59
50000.00	.8962647	02	.1172791	02-	266.23	12.34
51000.00	.7898231	02	.1036748	02-	265.40	12.09
52000.00	.6954375	02	.9227417	03-	262.56	11.75
53000.00	.6115075	02	.8202638	03-	259.72	11.27
54000.00	.5369677	02	.7282520	03-	256.87	10.73
55000.00	.4708513	02	.6457319	03-	254.03	10.13
56000.00	.4122190	02	.5730525	03-	250.60	9.46
57000.00	.3602424	02	.5077469	03-	247.17	8.70
58000.00	.3142403	02	.4491425	03-	243.74	7.84
59000.00	.2735827	02	.3968535	03-	240.16	6.89
60000.00	.2376712	02	.3506036	03-	236.16	5.81
61000.00	.2059867	02	.3091021	03-	232.16	4.60
62000.00	.1780906	02	.2719291	03-	228.16	3.26
63000.00	.1536118	02	.2381416	03-	224.72	1.89
64000.00	.1322125	02	.2079321	03-	221.51	.53
65000.00	.1135511	02	.1812048	03-	218.31	.79-
66000.00	.9732288	01	.1573341	03-	215.50	2.09-
67000.00	.8327889	01	.1317855	03-	213.66	3.31-
68000.00	.7116936	01	.1170453	03-	211.83	4.40-
69000.00	.6074461	01	.1007662	03-	210.00	5.37-
70000.00	.5177672	01	.8652407	04-	208.47	6.21-
71000.00	.4409021	01	.7413763	04-	207.58	6.88-
72000.00	.3750903	01	.6346632	04-	205.89	7.38-
73000.00	.3187941	01	.5428074	04-	204.60	7.71-
74000.00	.2706880	01	.4637060	04-	203.36	7.85-
75000.00	.2296273	01	.3956923	04-	202.17	7.79-
76000.00	.1946151	01	.3373543	04-	200.97	7.52-
77000.00	.1647872	01	.2873585	04-	199.78	7.03-
78000.00	.1393075	01	.2463127	04-	197.03	6.36-
79000.00	.1174682	01	.2112288	04-	193.74	5.58-
80000.00	.9876883	00	.1806752	04-	190.44	4.71-
81000.00	.8284604	00	.1532382	04-	188.34	3.89-
82000.00	.6939454	00	.1290163	04-	187.38	3.20-
83000.00	.5807737	00	.1085330	04-	186.42	2.59-
84000.00	.4856383	00	.9122517	05-	185.46	2.07-
85000.00	.4057315	00	.7661243	05-	184.50	1.64-
86000.00	.3386730	00	.6428527	05-	183.53	1.30-

FIGURE 25

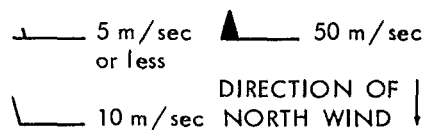
NATAL, 7 AUGUST 1966, 0705 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
244.93	2.33	2.55	240.62	.67	35659.15
306.14	2.14	4.12	254.71	1.26	41341.75
357.92	4.48	7.47	263.39	2.31	45611.00
165.34	15.29	13.17	266.63	2.42	49163.00
275.85	8.25	6.79	258.50	2.23	52621.00
302.58	42.44	12.36	258.93	2.40	55994.90
279.10	37.65	13.76	250.30	2.55	59276.00
285.24	40.63	14.59	234.81	2.67	62467.65
302.69	57.92	10.64	225.64	2.05	66076.00
307.49	29.19	9.97	201.12	1.98	70067.60
339.28	23.73	9.35	196.52	2.94	73903.05
296.21	45.61	18.39	204.01	3.69	77610.60
146.72	29.00	20.71	200.88	3.99	81163.45
173.42	47.19	31.78	193.92	6.22	84120.30
209.57	74.24	20.44	189.27	4.77	86556.10
161.97	1.57	30.72	186.82	4.60	88912.30
72.74	61.14	32.77	183.35	6.62	91189.09
245.40	148.39	49.52	198.49	9.63	93313.74



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
40000.00	-.73	1.81
45000.00	-4.01	.38
50000.00	11.00	-.94
55000.00	-16.36	27.63
60000.00	-7.02	37.63
65000.00	-25.14	45.90
70000.00	-17.99	23.59
75000.00	-21.58	18.01
80000.00	9.70	2.69
85000.00	53.26	9.77
90000.00	-8.01	-28.87

LEGEND

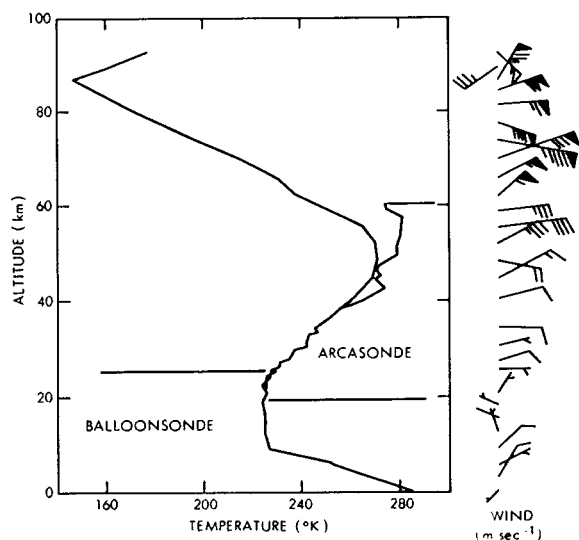


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
30000.00	.1185574	04	.1814649	01-	227.61	.95-	1.43-
31000.00	.1023627	04	.1537270	01-	231.98	.74-	2.65-
32000.00	.8857978	03	.1315287	01-	234.62	.36-	2.96-
33000.00	.7675709	03	.1131831	01-	236.26	.03	2.20-
34000.00	.6658121	03	.9750177	02-	237.90	.36	1.38-
35000.00	.5781332	03	.8408281	02-	239.54	.61	.65-
36000.00	.5025480	03	.7257709	02-	241.46	.80	.09-
37000.00	.4374192	03	.6246908	02-	243.94	.96	.18
38000.00	.3812819	03	.5390420	02-	246.42	1.09	.44
39000.00	.3328204	03	.4658430	02-	248.90	1.21	.68
40000.00	.2909223	03	.4031876	02-	251.38	1.31	.90
41000.00	.2546452	03	.3494619	02-	253.85	1.39	1.10
42000.00	.2231726	03	.3036565	02-	256.04	1.45	1.39
43000.00	.1958098	03	.2643269	02-	258.07	1.48	1.70
44000.00	.1719852	03	.2303511	02-	260.11	1.46	1.97
45000.00	.1512181	03	.2009657	02-	262.14	1.42	2.20
46000.00	.1330821	03	.1757925	02-	263.74	1.32	2.55
47000.00	.1171970	03	.1542759	02-	264.65	1.16	3.09
48000.00	.1032573	03	.1354591	02-	265.56	.94	2.87
49000.00	.9101856	02	.1189950	02-	266.47	.75	2.33
50000.00	.8021622	02	.1055930	02-	264.65	.54	2.82
51000.00	.7062810	02	.9380471	03-	262.30	.24	3.43
52000.00	.6211728	02	.8324703	03-	259.95	.17-	3.93
53000.00	.5458337	02	.7354962	03-	258.54	.67-	3.54
54000.00	.4795003	02	.6457939	03-	258.67	1.11-	2.28
55000.00	.4212716	02	.5670903	03-	258.80	1.46-	1.13
56000.00	.3701532	02	.4980584	03-	258.91	1.70-	.08
57000.00	.3250422	02	.4418474	03-	256.28	1.91-	.14
58000.00	.2850584	02	.3915124	03-	253.65	2.16-	.16
59000.00	.2496614	02	.3464888	03-	251.02	2.45-	.15
60000.00	.2182688	02	.3081263	03-	246.78	2.82-	.72
61000.00	.1903549	02	.2741129	03-	241.93	3.33-	1.41
62000.00	.1655580	02	.2432872	03-	237.07	4.00-	1.66
63000.00	.1436364	02	.2143483	03-	233.45	4.72-	.86
64000.00	.1243886	02	.1876661	03-	230.91	5.41-	.37-
65000.00	.1075536	02	.1640713	03-	228.37	6.03-	1.54-
66000.00	.9285025	01	.1432343	03-	225.83	6.59-	2.64-
67000.00	.7993817	01	.1266061	03-	219.96	7.19-	2.34-
68000.00	.6854009	01	.1116727	03-	213.82	7.93-	2.03-
69000.00	.5850712	01	.9814572	04-	207.68	8.85-	1.85-
70000.00	.4970849	01	.8592784	04-	201.53	9.95-	1.83-
71000.00	.4210432	01	.7334109	04-	200.00	11.07-	4.05-
72000.00	.3562469	01	.6242866	04-	198.80	12.04-	6.25-
73000.00	.3011335	01	.5309091	04-	197.60	12.82-	8.25-
74000.00	.2543334	01	.4504214	04-	196.71	13.42-	10.18-
75000.00	.2149217	01	.3767563	04-	198.73	13.69-	13.09-
76000.00	.1819363	01	.3157248	04-	200.75	13.54-	15.49-
77000.00	.1542782	01	.2650618	04-	202.77	12.96-	17.42-
78000.00	.1309860	01	.2240604	04-	203.66	11.95-	18.52-
79000.00	.1112162	01	.1910688	04-	202.78	10.61-	18.65-
80000.00	.9436806	00	.1628307	04-	201.90	8.96-	18.54-
81000.00	.8001874	00	.1386758	04-	201.02	7.17-	16.56-
82000.00	.6777110	00	.1186977	04-	198.91	5.46-	14.11-
83000.00	.5729345	00	.1015482	04-	196.55	3.90-	11.69-
84000.00	.4834034	00	.8671782	05-	194.20	2.52-	9.32-
85000.00	.4071113	00	.7377809	05-	192.23	1.30-	7.25-
86000.00	.3422821	00	.6265235	05-	190.32	.24-	5.31-
87000.00	.2873404	00	.5301988	05-	188.80	.66	3.67-
88000.00	.2409442	00	.4470428	05-	187.77	1.46	2.37-
89000.00	.2018497	00	.3766734	05-	186.69	2.17	1.13-
90000.00	.1688978	00	.3177819	05-	185.16	2.74	.24
91000.00	.1411246	00	.2677354	05-	183.63	3.02	3.05
92000.00	.1181492	00	.2176376	05-	189.12	3.19	1.84
93000.00	.9949618	01-	.1766195	05-	196.25	3.66	.18

FIGURE 26

CHURCHILL, 7 AUGUST 1966, 0904 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
92.85	12.17	1.96	245.90	1.07	34688.05
80.50	8.95	2.08	260.64	.79	40505.40
67.55	16.37	3.74	268.57	1.27	44853.10
101.22	20.05	3.76	270.73	1.25	48481.70
60.77	32.84	3.80	269.69	1.11	52037.65
81.03	39.66	2.82	265.19	.79	55484.94
77.30	34.58	2.10	251.99	.42	58835.80
49.17	55.86	2.41	237.56	.45	62112.00
65.01	56.04	1.69	230.62	.26	65804.65
76.17	79.01	2.78	214.84	.40	69885.94
99.30	96.75	9.58	197.06	1.38	73815.49
104.97	87.35	13.43	181.20	1.85	77620.60
88.74	66.90	11.33	166.60	1.51	81269.54
74.22	112.29	12.65	156.41	1.64	84325.05
27.21	74.52	12.39	147.11	1.51	86842.05
236.34	35.85	19.90	160.81	2.66	89263.69
136.91	55.64	11.93	176.87	1.80	92652.00



WIND COMPONENTS m/sec

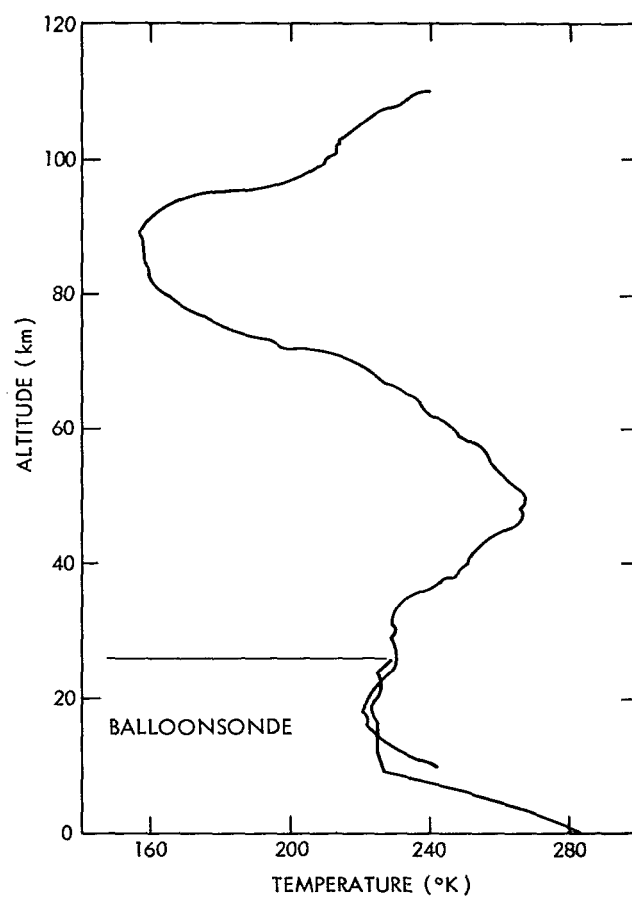
HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	.49	-11.97
40000.00	-1.29	-9.11
45000.00	-5.83	-15.31
50000.00	-4.61	-23.50
55000.00	-7.57	-37.69
60000.00	-17.87	-36.76
65000.00	-26.47	-48.93
70000.00	-17.89	-77.26
75000.00	17.79	-92.02
80000.00	6.88	-72.97
85000.00	-40.11	-88.21
90000.00	24.38	15.09

LEGEND

5 m/sec or less
 10 m/sec
 50 m/sec
 DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
30000.00	.1312065	04	.1903670	01-	240.28	9.68	3.40
31000.00	.1140602	04	.1645683	01-	241.48	10.61	4.20
32000.00	.0917585	03	.1423742	01-	242.67	11.55	5.03
33000.00	.8629021	07	.1232665	01-	243.87	12.45	6.51
34000.00	.7513330	03	.1068034	01-	245.07	13.25	8.02
35000.00	.6547350	03	.9246242	02-	246.67	13.24	9.24
36000.00	.5712300	03	.7085101	02-	249.22	14.58	10.01
37000.00	.4900005	03	.6706501	02-	251.76	15.20	10.76
38000.00	.4366781	03	.5982528	02-	254.29	15.78	11.47
39000.00	.3825857	03	.5183762	02-	256.82	16.35	12.16
40000.00	.3356429	03	.4508518	02-	259.35	16.89	12.83
41000.00	.2948211	03	.3927140	02-	261.54	17.39	13.61
42000.00	.2592308	03	.3429159	02-	263.36	17.85	14.50
43000.00	.2281486	03	.2997248	02-	265.18	18.24	15.32
44000.00	.2005769	03	.2622257	02-	267.01	18.57	16.08
45000.00	.1771936	03	.2297802	02-	268.65	18.84	16.85
46000.00	.1563130	03	.2022533	02-	269.25	19.01	17.29
47000.00	.1373366	03	.1780811	02-	269.84	19.06	18.99
48000.00	.1217589	03	.1568481	02-	270.44	19.02	19.12
49000.00	.1075020	03	.1384134	02-	270.58	19.00	19.03
50000.00	.9491303	02	.1223377	02-	270.28	18.97	19.13
51000.00	.8379043	02	.1081191	02-	269.99	18.82	19.21
52000.00	.7396404	02	.9554377	03-	269.69	18.85	19.28
53000.00	.6526706	02	.8471004	03-	268.43	18.77	19.26
54000.00	.5756390	02	.7507497	03-	267.12	18.70	18.90
55000.00	.5073911	02	.6649007	03-	265.81	18.68	18.59
56000.00	.4468290	02	.5915417	03-	263.15	18.65	18.87
57000.00	.3928703	02	.5280239	03-	259.21	18.55	19.67
58000.00	.3417774	02	.4705265	03-	255.27	18.32	20.38
59000.00	.3019573	02	.4186743	03-	251.26	17.97	21.02
60000.00	.2638742	02	.3723253	03-	246.86	17.48	21.73
61000.00	.2300452	02	.3305484	03-	242.45	16.82	22.29
62000.00	.2000583	02	.2927765	03-	238.05	16.00	22.34
63000.00	.1736522	02	.2564612	03-	235.89	15.18	20.67
64000.00	.1505548	02	.2241350	03-	234.01	14.48	18.98
65000.00	.1303852	02	.1956794	03-	232.13	13.91	17.41
66000.00	.1127771	02	.1709232	03-	229.86	13.45	16.17
67000.00	.9736786	01	.1500841	03-	226.00	13.03	15.77
68000.00	.8384283	01	.1314764	03-	222.13	12.61	15.35
69000.00	.7201576	01	.1149489	03-	218.26	12.19	14.74
70000.00	.6160078	01	.1002794	03-	214.32	11.74	14.55
71000.00	.5268489	01	.8748765	04-	209.79	11.26	14.45
72000.00	.4464172	01	.7610463	04-	205.27	10.71	14.28
73000.00	.3803123	01	.6600069	04-	200.74	10.09	14.05
74000.00	.3213679	01	.5703806	04-	196.28	9.39	13.73
75000.00	.2705602	01	.4906195	04-	192.12	8.64	13.17
76000.00	.2269395	01	.4206434	04-	187.25	7.83	12.59
77000.00	.1866132	01	.3594258	04-	183.78	6.97	11.97
78000.00	.1577887	01	.3059313	04-	179.68	6.06	11.24
79000.00	.1307642	01	.2593777	04-	175.68	5.09	10.39
80000.00	.1079067	01	.2183670	04-	171.68	4.09	9.53
81000.00	.8864754	00	.1841776	04-	167.68	2.83	10.81
82000.00	.7250685	00	.1538690	04-	164.16	1.13	11.33
83000.00	.5905801	00	.1270289	04-	160.83	0.34	11.24
84000.00	.4700036	00	.1059572	04-	157.49	3.41-	10.80
85000.00	.3667300	00	.8753177	05-	153.21	6.24-	10.03
86000.00	.3106593	00	.7204515	05-	150.22	0.46-	8.87
87000.00	.2484200	00	.5840032	05-	148.09	12.94-	6.26
88000.00	.1992784	00	.4517070	05-	153.66	16.08-	1.33-
89000.00	.1611038	00	.3522799	05-	159.32	18.45-	7.53-
90000.00	.1311640	00	.2781177	05-	164.30	20.20-	12.26-
91000.00	.1074388	00	.2214226	05-	169.04	21.56-	14.77-
92000.00	.8849670	01-	.1774104	05-	173.78	22.70-	16.98-

FIGURE 27
CHURCHILL, 7 AUGUST 1966, 0949 GMT.

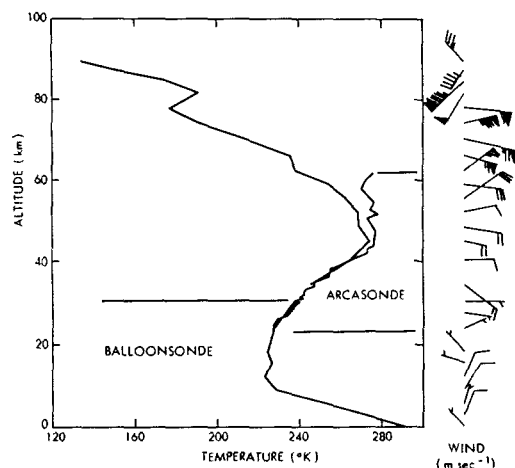


HEIGHT meters	PRESSURE n/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation %	DENSITY deviation %		
10000.00	.2500786	.05	.3750000	.00	240.00	1.90-	2.31-
11000.00	.2266430	.05	.3310000	.00	237.10	.15-	2.90-
12000.00	.1950230	.05	.2950000	.00	232.40	1.02	6.07-
13000.00	.1579992	.05	.2579999	.00	227.60	1.30	3.22-
14000.00	.1453214	.05	.2340000	.00	225.50	2.55	1.69-
15000.00	.1246544	.05	.2140000	.00	223.30	2.72	.38-
16000.00	.1070579	.05	.1580000	.00	221.30	3.41	.92
17000.00	.09185011	.04	.1440000	.00	220.10	3.77	1.19
18000.00	.0797952	.04	.1240000	.00	221.20	4.15	1.93
19000.00	.0753444	.04	.1060000	.00	222.00	4.51	1.92
20000.00	.5770523	.04	.0640000	.01-	223.30	4.38	1.79
21000.00	.4906257	.04	.7740000	.01-	224.00	5.44	2.35
22000.00	.4270642	.04	.6670000	.01-	224.70	5.73	2.33
23000.00	.3603020	.04	.5650000	.01-	227.30	6.52	2.71
24000.00	.3173072	.04	.4820000	.01-	229.60	6.77	2.68
25000.00	.27746441	.04	.4150000	.01-	230.10	7.73	3.53
26000.00	.2377138	.04	.3580000	.01-	230.20	8.44	4.50
27000.00	.2030872	.04	.3000000	.01-	230.20	8.60	5.46
28000.00	.1759855	.04	.2600000	.01-	229.10	8.88	6.37
29000.00	.1513075	.04	.2310000	.01-	229.40	9.11	7.55
30000.00	.1211952	.04	.1940000	.01-	229.70	9.50	8.00
31000.00	.1113107	.04	.1720000	.01-	229.20	9.75	9.01
32000.00	.0777931	.03	.1480000	.01-	229.00	9.01	9.15
33000.00	.0549047	.03	.1270000	.01-	231.40	9.28	9.73
34000.00	.0392974	.03	.1000000	.01-	233.00	9.30	13.24
35000.00	.0346140	.03	.0340000	.02-	235.10	9.75	10.47
36000.00	.0466218	.03	.7980000	.02-	238.50	9.64	15.36
37000.00	.4780600	.03	.6800000	.02-	243.13	9.35	9.21
38000.00	.4146325	.03	.5840000	.02-	246.60	9.34	9.00
39000.00	.3633036	.03	.5060000	.02-	248.30	9.37	9.58
40000.00	.3159740	.03	.4380000	.02-	250.60	10.04	9.86
41000.00	.2759773	.03	.3800000	.02-	251.30	9.89	10.52
42000.00	.2413135	.03	.3310000	.02-	253.50	9.70	10.95
43000.00	.2119826	.03	.2870000	.02-	255.90	9.36	10.31
44000.00	.1851131	.03	.2500000	.02-	258.60	9.33	10.67
45000.00	.1526533	.03	.2160000	.02-	261.00	9.08	9.35
46000.00	.1430681	.03	.1880000	.02-	266.00	9.63	9.67
47000.00	.1265329	.03	.1550000	.02-	267.10	9.21	10.25
48000.00	.1114575	.03	.1460000	.02-	266.00	8.95	10.88
49000.00	.9826859	.02	.1280000	.02-	267.40	8.76	10.07
50000.00	.8665955	.02	.1130000	.02-	266.00	8.62	10.03
51000.00	.7539772	.02	.9999999	.03-	265.00	8.42	10.26
52000.00	.6719447	.02	.9669999	.03-	263.40	7.98	23.47
53000.00	.5919513	.02	.7989999	.03-	261.10	7.71	11.08
54000.00	.5130672	.02	.6989999	.03-	259.10	7.22	10.71
55000.00	.4572957	.02	.6179999	.03-	257.40	6.96	10.21
56000.00	.4013703	.02	.5440000	.03-	256.10	6.56	9.52
57000.00	.3515711	.02	.4810000	.03-	254.50	6.20	9.01
58000.00	.3079747	.02	.4280000	.03-	252.30	5.50	8.50
59000.00	.2693112	.02	.3779999	.03-	247.30	5.22	9.26
60000.00	.2346476	.02	.3319999	.03-	246.40	4.47	8.52
61000.00	.2052165	.02	.2919999	.03-	244.40	4.26	8.03
62000.00	.1796520	.02	.2589999	.03-	240.90	3.50	7.81
63000.00	.1546530	.02	.2270000	.03-	238.10	2.58	6.31
64000.00	.1346556	.02	.1980000	.03-	237.10	2.39	5.11
65000.00	.1150277	.02	.1740000	.03-	234.17	2.15	4.41
66000.00	.1011917	.02	.1530000	.03-	230.50	1.79	3.08
67000.00	.09745046	.01	.1340000	.03-	227.40	1.54	3.36
68000.00	.7546046	.01	.1170000	.03-	224.60	1.46	2.64
69000.00	.6402792	.01	.1020000	.03-	221.30	1.14	2.00
70000.00	.5572275	.01	.8989999	.04-	215.30	.94	2.58
71000.00	.4772241	.01	.7879999	.04-	210.30	.30	3.08
72000.00	.4053000	.01	.6899999	.04-	202.10	.07	4.96
73000.00	.3426485	.01	.6119999	.04-	195.20	.81-	5.76
74000.00	.2877763	.01	.5319999	.04-	190.30	1.36-	6.07
75000.00	.2300003	.01	.4580000	.04-	183.00	1.51-	5.55
76000.00	.1900846	.01	.3980000	.04-	179.30	4.37-	4.12
77000.00	.1651197	.01	.3309999	.04-	174.50	6.73-	3.11
78000.00	.1359369	.01	.2900000	.04-	169.30	8.59-	1.31
79000.00	.1119008	.01	.2340000	.04-	166.70	9.39-	.38
80000.00	.09159247	.00	.1940000	.04-	164.40	11.64-	2.95-
81000.00	.7466054	.00	.1610000	.04-	161.40	13.39-	3.13-
82000.00	.6066162	.00	.1320000	.04-	160.17	15.38-	4.48-
83000.00	.4639027	.00	.1080000	.04-	150.00	17.26-	6.02-
84000.00	.3000671	.00	.8770000	.05-	149.50	19.34-	8.18-
85000.00	.2300733	.00	.7110000	.05-	148.50	21.46-	10.49-
86000.00	.2626450	.00	.5780000	.05-	149.00	23.45-	12.49-
87000.00	.2133163	.00	.4690000	.05-	157.60	25.26-	14.60-
88000.00	.1719858	.00	.3800000	.05-	157.50	27.57-	16.79-
89000.00	.1386532	.00	.3080000	.05-	157.17	29.81-	18.99-
90000.00	.1127907	.00	.2400000	.05-	157.80	31.38-	21.45-
91000.00	.0945015	.01	.2000000	.05-	159.30	33.23-	23.01-
92000.00	.7430389	.01	.1600000	.05-	161.00	35.02-	25.12-
93000.00	.6075600	.01	.1270000	.05-	166.60	36.65-	27.96-
94000.00	.4086257	.01	.1010000	.05-	172.00	38.20-	30.77-
95000.00	.4132993	.01	.7070000	.06-	180.50	39.23-	34.10-
96000.00	.3453049	.01	.6299999	.06-	190.90	39.92-	37.50-
97000.00	.2906427	.01	.5079999	.06-	199.80	40.33-	39.53-
98000.00	.2479796	.01	.4209999	.06-	204.70	40.06-	40.23-
99000.00	.2106403	.01	.3519999	.06-	208.50	40.21-	40.45-
100000.00	.1799852	.01	.2979999	.06-	210.20	40.15-	40.08-
101000.00	.1533207	.01	.2519999	.06-	212.60	40.45-	39.40-
102000.00	.1315892	.01	.2150000	.06-	213.20	40.51-	38.44-
103000.00	.1127907	.01	.1830000	.06-	214.70	40.86-	37.86-
104000.00	.9679204	.02	.1550000	.06-	217.90	41.33-	37.80-
105000.00	.8119315	.02	.1320000	.06-	219.50	41.99-	37.64-
106000.00	.7159411	.02	.1120000	.06-	222.69	42.55-	37.91-
107000.00	.6186157	.02	.9549999	.07-	225.40	43.13-	38.10-
108000.00	.5346227	.02	.8099999	.07-	229.80	43.95-	38.77-
109000.00	.4639618	.02	.6899999	.07-	233.90	44.48-	39.42-
110000.00	.4026335	.02	.5849998	.07-	240.00	45.25-	40.48-

FIGURE 28

CHURCHILL, 7 AUGUST 1966, 1735 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
125.30	12.74	2.64	245.62	1.20	34809.30
92.51	9.14	3.96	264.69	1.87	40633.20
109.12	18.01	3.97	274.00	1.62	45016.85
105.69	20.41	3.59	269.27	1.40	48664.40
79.48	11.83	7.11	268.52	2.12	52218.19
62.39	30.09	7.22	262.28	2.23	55681.75
99.26	31.69	14.05	253.77	3.56	59057.30
64.09	67.17	21.84	238.17	4.27	62347.30
108.13	64.78	18.14	235.11	3.41	66063.99
104.61	73.52	16.54	213.72	3.17	70182.84
76.50	85.79	39.20	190.90	5.63	74135.19
94.80	60.25	49.15	177.28	7.19	77941.40
209.94	51.77	19.09	191.31	7.27	81603.90
222.52	146.15	41.69	176.45	6.25	84669.40
211.88	44.71	16.65	151.33	4.31	87199.50
313.85	33.76	55.88	134.60	6.34	89645.20



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	7.13	-10.35
40000.00	1.15	-9.26
45000.00	5.87	-16.98
50000.00	2.63	-16.63
55000.00	-11.62	-23.70
60000.00	-4.77	-39.62
65000.00	5.98	-61.23
70000.00	18.61	-70.71
75000.00	-14.33	-78.10
80000.00	27.42	-11.77
85000.00	98.60	88.94

LEGEND

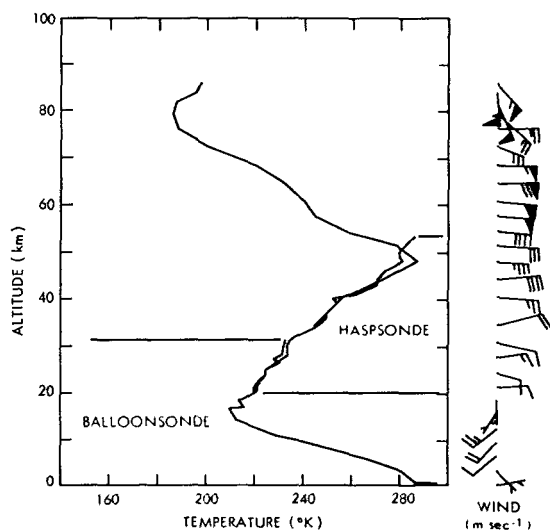
5 m/sec or less 50 m/sec
 10 m/sec DIRECTION OF NORTH WIND

HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
30000.00	.1368079	04	.2018365	01-	236.14	14.29	9.63
31000.00	.1185930	04	.1735151	01-	238.11	14.99	9.87
32000.00	.1029290	04	.1493604	01-	240.08	15.77	10.18
33000.00	.8944147	03	.1287316	01-	242.05	16.56	11.23
34000.00	.7781325	03	.1110906	01-	244.02	17.29	12.35
35000.00	.5778037	03	.9589083	02-	246.24	17.96	13.30
36000.00	.5913389	03	.8256425	02-	249.51	18.61	13.75
37000.00	.5168442	03	.7122859	02-	252.79	19.29	14.23
38000.00	.4525362	03	.6156869	02-	256.06	19.99	14.72
39000.00	.3969153	03	.5331966	02-	259.33	20.70	15.24
40000.00	.3487180	03	.4626110	02-	262.61	21.44	15.77
41000.00	.3068461	03	.4026900	02-	265.46	22.18	16.50
42000.00	.2703355	03	.3519587	02-	267.59	22.89	17.52
43000.00	.2384173	03	.3079582	02-	269.71	23.56	18.49
44000.00	.2104830	03	.2697513	02-	271.84	24.18	19.41
45000.00	.1860092	03	.2365376	02-	273.96	24.75	20.29
46000.00	.1644203	03	.2100338	02-	272.72	25.18	22.53
47000.00	.1452591	03	.1864432	02-	271.42	25.38	24.58
48000.00	.1282598	03	.1654142	02-	270.13	25.38	25.62
49000.00	.1131961	03	.1464926	02-	269.19	25.30	25.98
50000.00	.9987850	02	.1293598	02-	268.98	25.19	25.97
51000.00	.8812286	02	.1142245	02-	268.77	25.07	25.55
52000.00	.7774580	02	.1008536	02-	268.56	24.93	25.91
53000.00	.6856696	02	.8943070	03-	267.10	24.77	25.30
54000.00	.6042772	02	.7934963	03-	265.30	24.61	25.47
55000.00	.5321097	02	.7035040	03-	263.50	24.46	25.45
56000.00	.4681449	02	.6237405	03-	261.47	24.31	25.34
57000.00	.4114247	02	.5535057	03-	258.95	24.14	25.45
58000.00	.3611347	02	.4906257	03-	256.43	23.94	25.52
59000.00	.3165967	02	.4343891	03-	253.91	23.69	25.56
60000.00	.2770447	02	.3871582	03-	249.29	23.34	26.55
61000.00	.2418318	02	.3445030	03-	244.55	22.80	27.46
62000.00	.2105423	02	.3058604	03-	239.81	22.08	27.90
63000.00	.1829410	02	.2682059	03-	237.63	21.35	28.20
64000.00	.1588252	02	.2336566	03-	235.81	20.77	28.04
65000.00	.1378262	02	.2034693	03-	235.38	20.41	22.09
66000.00	.1195436	02	.1771043	03-	235.16	20.26	20.37
67000.00	.1035192	02	.1566300	03-	230.25	20.18	20.81
68000.00	.8935626	01	.1383214	03-	225.05	20.02	21.34
69000.00	.7587002	01	.1219045	03-	219.86	19.75	21.80
70000.00	.6589412	01	.1069723	03-	214.66	19.35	22.16
71000.00	.5626538	01	.9378910	04-	209.00	18.82	22.69
72000.00	.4783582	01	.8200309	04-	203.22	18.10	23.14
73000.00	.4048145	01	.7142490	04-	197.45	17.18	23.43
74000.00	.3409027	01	.6196009	04-	191.68	16.04	23.54
75000.00	.2858474	01	.5302547	04-	187.80	14.78	22.32
76000.00	.2386527	01	.4516830	04-	184.22	13.49	20.90
77000.00	.1988937	01	.3835674	04-	180.65	12.21	19.49
78000.00	.1650612	01	.3239589	04-	177.50	10.95	17.80
79000.00	.1370404	01	.2632819	04-	161.33	10.14	12.08
80000.00	.1142262	01	.2149114	04-	185.16	10.19	7.51
81000.00	.9557098	00	.1761681	04-	188.90	10.86	5.90
82000.00	.8012682	00	.1473235	04-	189.30	11.76	6.65
83000.00	.6704031	00	.1265614	04-	184.54	12.43	10.65
84000.00	.5582854	00	.1082397	04-	179.69	12.57	13.18
85000.00	.4622053	00	.9298993	05-	173.16	12.04	16.89
86000.00	.3791517	00	.8091930	05-	163.23	10.49	22.20
87000.00	.3071998	00	.6980829	05-	153.31	7.62	26.83
88000.00	.2459008	00	.5873545	05-	145.85	3.55	28.27
89000.00	.1946615	00	.4878476	05-	139.01	1.46	28.04

FIGURE 29

WALLOPS ISLAND, 7 AUG. 1966, 2046 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
74.45	17.78	.87	245.40	.37	34539.15
94.61	26.41	1.05	257.21	.48	40188.19
83.73	41.53	1.11	272.49	.51	44372.15
92.39	37.05	.84	287.38	.46	47803.80
96.52	31.52	.68	279.54	.38	51117.55
101.74	39.30	.62	259.30	.28	54316.05
97.32	51.88	.67	244.85	.22	57394.55
99.23	59.30	.68	240.11	.22	60854.95
87.62	72.02	.99	232.50	.32	64663.55
91.52	53.05	1.14	221.02	.38	68296.04
119.74	32.40	1.01	200.49	.29	72197.94
87.67	25.52	1.63	188.62	.49	75918.64
129.66	25.09	2.74	186.78	.55	79029.34
156.65	51.69	5.31	188.02	.81	81636.39
178.22	52.96	7.05	195.60	.99	83775.39
141.57	55.58	6.70	198.35	1.01	85818.99



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-4.20	-17.87
40000.00	1.89	-26.01
45000.00	-3.42	-40.50
50000.00	2.89	-33.23
55000.00	7.68	-41.35
60000.00	8.79	-56.78
65000.00	-2.58	-70.20
70000.00	7.81	-42.15
75000.00	3.18	-26.15
80000.00	27.72	-19.75
85000.00	47.30	-21.36

LEGEND

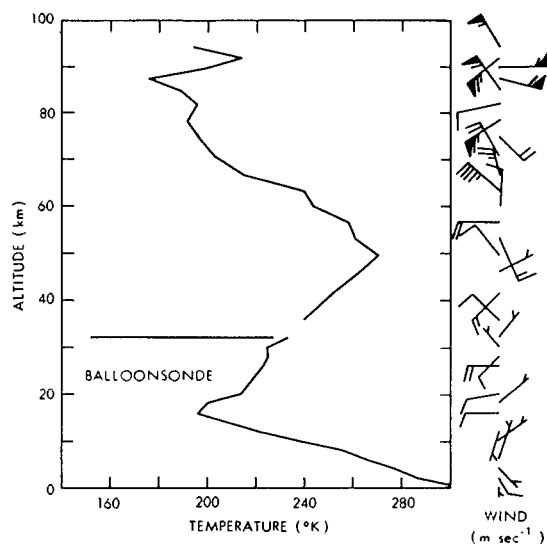
5 m/sec or less 50 m/sec
 10 m/sec DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)	
30000.00	.1314885	04	.1952288	01-	234.64	9.84	6.04
31000.00	.1139227	04	.1674556	01-	237.01	10.46	6.07
32000.00	.0884888	03	.1438593	01-	239.38	11.18	6.13
33000.00	.8589343	03	.1237786	01-	241.75	11.94	6.95
34000.00	.7474159	03	.1066618	01-	244.12	12.66	7.87
35000.00	.6512555	03	.9209331	02-	246.36	12.24	8.81
36000.00	.5681757	03	.7966909	02-	248.45	13.97	9.76
37000.00	.4962824	03	.6900767	02-	250.54	14.55	10.67
38000.00	.4339917	03	.5984687	02-	252.63	15.07	11.51
39000.00	.3799550	03	.5196530	02-	254.73	15.55	12.31
40000.00	.3330217	03	.4517563	02-	256.81	15.97	13.06
41000.00	.2923030	03	.3914039	02-	260.17	16.39	13.24
42000.00	.2570211	03	.3393984	02-	263.82	16.84	13.33
43000.00	.2264067	03	.2948916	02-	267.47	17.33	13.46
44000.00	.1997897	03	.2567198	02-	271.12	17.87	13.64
45000.00	.1766211	03	.2235813	02-	275.21	18.45	13.70
46000.00	.1564377	03	.1949561	02-	279.55	19.10	13.73
47000.00	.1388252	03	.1703614	02-	283.89	19.83	13.84
48000.00	.1233904	03	.1498238	02-	286.91	20.62	13.78
49000.00	.1096905	03	.1342971	02-	284.55	21.42	15.49
50000.00	.9741952	02	.1202739	02-	282.18	22.11	17.12
51000.00	.8643805	02	.1076189	02-	279.81	22.68	18.66
52000.00	.7656085	02	.9736140	03-	273.95	23.03	21.55
53000.00	.6762988	02	.8803775	03-	267.62	23.06	23.94
54000.00	.5956601	02	.7941856	03-	261.29	22.83	25.78
55000.00	.5231749	02	.7117330	03-	256.08	22.37	26.92
56000.00	.4583676	02	.6352088	03-	251.39	21.72	27.64
57000.00	.4006054	02	.5657220	03-	246.70	20.88	28.22
58000.00	.3494300	02	.4988765	03-	244.02	19.92	27.63
59000.00	.3044587	02	.4371274	03-	242.64	18.95	26.35
60000.00	.2650793	02	.3827509	03-	241.27	18.02	25.11
61000.00	.2306154	02	.3350176	03-	239.81	17.11	23.95
62000.00	.2004385	02	.2936242	03-	237.82	16.22	22.69
63000.00	.1740123	02	.2570706	03-	235.82	15.42	20.96
64000.00	.1508953	02	.2248232	03-	233.82	14.74	19.35
65000.00	.1306794	02	.1967126	03-	231.43	14.16	18.03
66000.00	.1129805	02	.1724262	03-	228.27	13.65	17.19
67000.00	.9748512	01	.1508675	03-	225.11	13.18	16.37
68000.00	.8394348	01	.1317613	03-	221.95	12.75	15.59
69000.00	.7209436	01	.1155783	03-	217.31	12.31	15.57
70000.00	.6170380	01	.1013746	03-	212.05	11.77	15.61
71000.00	.5260731	01	.8862845	04-	206.79	11.10	15.94
72000.00	.4467014	01	.7722098	04-	201.52	10.29	15.96
73000.00	.3779529	01	.6652469	04-	197.93	9.41	14.96
74000.00	.3188794	01	.5704629	04-	194.74	8.55	13.75
75000.00	.2682991	01	.4879695	04-	191.55	7.73	12.56
76000.00	.2251225	01	.4159084	04-	188.57	6.97	11.32
77000.00	.1885910	01	.3495126	04-	187.98	6.39	8.88
78000.00	.1579084	01	.2935718	04-	187.39	6.14	6.75
79000.00	.1321508	01	.2464622	04-	186.80	6.21	4.92
80000.00	.1105935	01	.2057679	04-	187.24	6.28	2.93
81000.00	.9259828	00	.1718494	04-	187.72	7.41	3.39
82000.00	.7761077	00	.1428243	04-	189.31	8.25	3.34
83000.00	.6520676	00	.1177935	04-	192.85	9.36	2.42
84000.00	.5495018	00	.9772055	05-	195.90	10.80	2.18
85000.00	.4639809	00	.8194926	05-	197.24	12.48	3.01

FIGURE 30

NATAL, 7 AUGUST 1966, 2326 GMT.

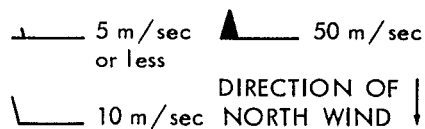
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
312.70	9.59	3.02	240.29	.58	35920.00
222.16	13.22	1.18	252.49	.23	41656.00
63.13	3.27	5.03	262.90	.89	45959.35
321.86	8.76	2.58	269.68	1.91	49542.80
159.21	12.85	10.41	261.37	1.79	53040.70
269.19	19.44	5.52	257.75	.89	56454.10
2.35	12.38	6.42	244.06	1.27	59767.30
312.74	45.95	9.81	240.37	1.87	62982.00
350.73	24.02	10.06	215.46	2.14	66618.84
335.66	21.30	8.84	202.93	2.31	70633.34
135.40	18.64	11.78	196.89	1.64	74498.24
236.79	66.48	10.12	192.41	1.63	78237.99
257.52	11.90	9.96	196.36	1.99	81817.44
331.16	55.40	9.77	189.25	1.85	84810.80
110.91	60.99	14.92	176.45	2.20	87277.15
39.12	53.30	63.14	200.53	9.97	89653.50
233.46	66.01	63.34	214.46	15.41	91929.55
327.42	56.59	19.71	194.57	11.72	94075.80



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	5.06	8.31
45000.00	1.03	-2.29
50000.00	-4.42	4.10
55000.00	5.27	9.21
60000.00	-13.72	1.97
65000.00	-27.03	17.17
70000.00	-20.08	8.00
75000.00	16.37	-3.86
80000.00	19.75	33.96
85000.00	-43.13	20.30
90000.00	5.29	-37.10

LEGEND

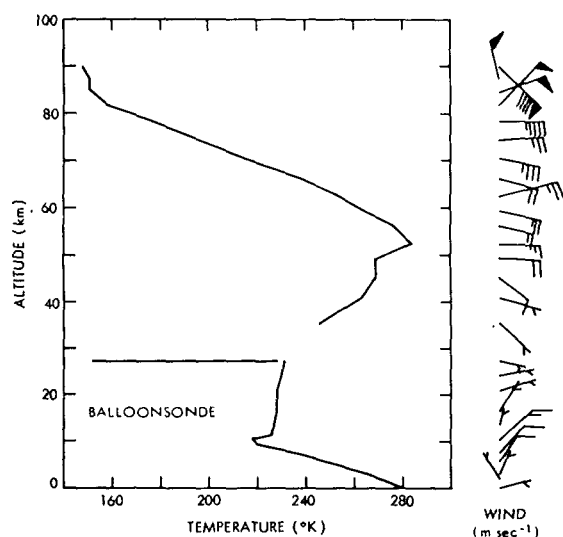


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
30000.00	.1200000	04	.1856728	01-	225.16	.24	.85
31000.00	.1034416	04	.1570616	01-	229.44	.30	.54-
32000.00	.8941760	03	.1332775	01-	233.73	.57	1.67-
33000.00	.7744349	03	.1145754	01-	235.47	.92	.99-
34000.00	.6714511	03	.9864871	02-	237.12	1.21	.22-
35000.00	.5827637	03	.8502784	02-	238.77	1.42	.46
36000.00	.5063112	03	.7335425	02-	240.46	1.56	1.06
37000.00	.4403961	03	.6324587	02-	242.58	1.65	1.42
38000.00	.3835453	03	.5460287	02-	244.71	1.69	1.74
39000.00	.3344474	03	.4720300	02-	246.84	1.71	2.02
40000.00	.2919897	03	.4085868	02-	248.96	1.68	2.25
41000.00	.2552270	03	.3541200	02-	251.09	1.63	2.45
42000.00	.2233616	03	.3071826	02-	253.32	1.54	2.57
43000.00	.1957207	03	.2666214	02-	255.74	1.43	2.59
44000.00	.1717200	03	.2317344	02-	258.16	1.31	2.58
45000.00	.1508542	03	.2016842	02-	260.58	1.17	2.57
46000.00	.1326865	03	.1757768	02-	262.98	1.02	2.54
47000.00	.1168333	03	.1526708	02-	264.87	.84	2.68
48000.00	.1029713	03	.1314478	02-	266.76	.66	2.13
49000.00	.9083846	02	.1177989	02-	268.63	.55	1.30
50000.00	.8017140	02	.1039889	02-	268.59	.49	1.26
51000.00	.7072050	02	.9254817	03-	266.21	.37	2.04
52000.00	.6231611	02	.8228344	03-	263.84	.14	2.73
53000.00	.5484995	02	.7308245	03-	261.46	.18-	2.89
54000.00	.4823909	02	.6454918	03-	260.35	.52-	2.23
55000.00	.4240390	02	.5697322	03-	259.29	.81-	1.60
56000.00	.3725636	02	.5026270	03-	258.23	1.06-	1.00
57000.00	.3270369	02	.4459350	03-	255.49	1.31-	1.07
58000.00	.2865782	02	.3971918	03-	251.36	1.64-	1.62
59000.00	.2505859	02	.3531131	03-	247.23	2.09-	2.07
60000.00	.2186705	02	.3124850	03-	243.79	2.64-	2.14
61000.00	.1905835	02	.2736359	03-	242.64	3.21-	1.24
62000.00	.1660029	02	.2354761	03-	241.49	3.74-	.06
63000.00	.1444996	02	.2095399	03-	240.24	4.14-	1.40-
64000.00	.1254881	02	.1873109	03-	233.39	4.57-	.56-
65000.00	.1085259	02	.1668892	03-	226.54	5.18-	.14
66000.00	.9344330	01	.1481748	03-	212.70	5.99-	.71
67000.00	.8012113	01	.1302682	03-	214.27	6.97-	.48
68000.00	.6848995	01	.1130035	03-	211.15	8.00-	.86-
69000.00	.5841351	01	.9782445	04-	208.02	9.00-	2.17-
70000.00	.4970229	01	.8450400	04-	204.90	9.96-	3.46-
71000.00	.4219736	01	.7264836	04-	202.35	10.88-	4.96-
72000.00	.3576774	01	.6205849	04-	200.79	11.68-	6.80-
73000.00	.3028019	01	.5294075	04-	199.22	12.34-	8.40-
74000.00	.2560227	01	.4512384	04-	197.66	12.84-	10.02-
75000.00	.2162104	01	.3837492	04-	196.28	13.18-	11.47-
76000.00	.1823954	01	.3257197	04-	195.08	13.33-	12.81-
77000.00	.1537160	01	.2762008	04-	193.88	13.27-	13.95-
78000.00	.1294156	01	.2339833	04-	192.69	13.01-	14.91-
79000.00	.1089319	01	.1963804	04-	193.24	12.44-	16.39-
80000.00	.9176283	00	.1644868	04-	194.35	11.47-	17.71-
81000.00	.7737922	00	.1379190	04-	195.46	10.23-	17.01-
82000.00	.6529852	00	.1161073	04-	195.93	8.91-	15.98-
83000.00	.5506082	00	.9910608	05-	193.55	7.65-	13.82-
84000.00	.4633296	00	.8443346	05-	191.17	6.57-	11.70-
85000.00	.3889700	00	.7197810	05-	188.26	5.70-	9.51-
86000.00	.3253163	00	.6190543	05-	183.07	5.19-	6.44-
87000.00	.2707002	00	.5301505	05-	177.88	5.16-	3.67-
88000.00	.2253452	00	.4271910	05-	183.77	5.10-	6.70-
89000.00	.1890591	00	.3396755	05-	193.90	4.30-	10.84-
90000.00	.1599573	00	.2749922	05-	202.64	2.69-	13.25-
91000.00	.1361634	00	.2272251	05-	208.76	.59-	12.53-
92000.00	.1164089	00	.1896842	05-	213.80	1.67	11.23-
93000.00	.9936578	01-	.1692473	05-	204.53	3.53	4.00-
94000.00	.8420198	01-	.1502240	05-	195.27	4.36	2.96

FIGURE 31

BARROW, 14 AUGUST 1966, 2035 GMT.

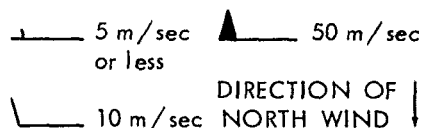
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
131.40	7.30	1.58	245.75	.19	35389.90
114.51	6.43	2.23	263.39	.30	41196.45
130.95	11.84	2.24	269.18	.30	45553.00
95.55	22.18	1.67	269.30	.24	49172.85
92.68	15.51	2.00	283.65	.28	52709.70
108.41	14.99	3.34	276.42	.52	56158.55
106.63	24.61	5.13	263.82	.62	59520.25
77.84	25.00	5.20	252.93	.63	62799.90
109.41	20.13	3.59	237.52	.37	66406.60
104.51	33.58	6.00	214.69	.55	70581.80
87.67	25.30	6.63	195.04	.55	74534.85
91.63	46.34	3.86	176.60	.29	78343.10
43.90	48.65	9.20	158.22	.52	81980.24
73.65	50.03	16.73	150.88	1.00	85073.14
350.48	48.97	16.74	150.68	.95	87542.94
135.28	89.18	47.49	148.03	1.80	89966.65



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	3.17	-5.72
45000.00	7.11	-8.55
50000.00	1.81	-20.54
55000.00	3.38	-14.65
60000.00	5.24	-23.71
65000.00	1.84	-21.19
70000.00	8.16	-30.58
75000.00	-.74	-27.85
80000.00	-15.25	-40.58
85000.00	-14.31	-47.84

LEGEND

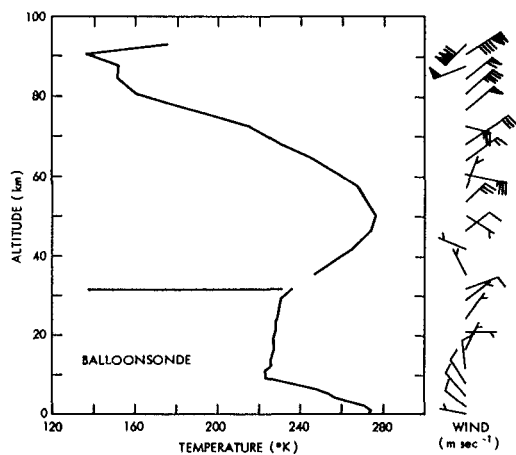


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
27000.00	.2057740	04	.3092949	01-	231.78	9.45	5.56
28000.00	.1778360	04	.2653051	01-	233.44	10.03	5.83
29000.00	.1538576	04	.2270845	01-	235.11	10.65	6.14
30000.00	.1332544	04	.1960663	01-	236.77	11.32	6.49
31000.00	.1155317	04	.1688025	01-	238.44	12.02	6.89
32000.00	.1002700	04	.1454878	01-	240.10	12.78	7.33
33000.00	.8711349	03	.1255276	01-	241.77	13.53	8.46
34000.00	.7575967	03	.1084204	01-	243.43	14.19	9.65
35000.00	.6595123	03	.9374225	02-	245.10	14.77	10.76
36000.00	.5748244	03	.8087902	02-	247.60	15.30	11.43
37000.00	.5017986	03	.6974843	02-	250.64	15.82	11.85
38000.00	.4387859	03	.6025254	02-	253.67	16.34	12.28
39000.00	.3843153	03	.5215442	02-	256.71	16.87	12.72
40000.00	.3371456	03	.0521809	02-	259.75	17.41	13.16
41000.00	.2962280	03	.3927095	02-	262.79	17.95	13.61
42000.00	.2605875	03	.3432871	02-	264.45	18.46	14.62
43000.00	.2294103	03	.3007053	02-	265.78	18.89	15.70
44000.00	.2020994	03	.2635896	02-	267.11	19.23	16.68
45000.00	.1781528	03	.2312152	02-	268.44	19.48	17.58
46000.00	.1571370	03	.2033646	02-	269.19	19.64	18.64
47000.00	.1386285	03	.1793875	02-	269.22	19.66	19.87
48000.00	.1223075	03	.1582471	02-	269.26	19.56	20.18
49000.00	.1079128	03	.1396043	02-	269.29	19.45	20.05
50000.00	.09528961	02	.1217544	02-	272.65	19.44	18.56
51000.00	.8428759	02	.1061182	02-	276.71	19.62	17.01
52000.00	.7469189	02	.9267879	03-	280.77	20.02	15.70
53000.00	.6628101	02	.8158299	03-	283.04	20.61	14.85
54000.00	.5882152	02	.7294188	03-	280.00	21.30	15.52
55000.00	.5215684	02	.6516380	03-	278.84	21.99	16.20
56000.00	.4620705	02	.5816776	03-	276.74	22.70	16.89
57000.00	.4088720	02	.5212751	03-	273.26	23.37	18.14
58000.00	.3612228	02	.4669306	03-	269.51	23.97	19.46
59000.00	.3185858	02	.4176236	03-	265.76	24.47	20.72
60000.00	.2805057	02	.3726733	03-	262.22	24.88	21.82
61000.00	.2465734	02	.3317926	03-	258.90	25.21	22.75
62000.00	.2163903	02	.2949658	03-	255.58	25.47	23.25
63000.00	.1895843	02	.2619984	03-	252.09	25.75	23.28
64000.00	.1657667	02	.2329332	03-	247.92	26.05	23.65
65000.00	.1446180	02	.2066890	03-	243.76	26.34	24.02
66000.00	.1258763	02	.1830318	03-	239.59	26.62	24.40
67000.00	.1092783	02	.1622031	03-	234.71	26.87	25.11
68000.00	.9057060	01	.1437967	03-	229.12	27.02	26.14
69000.00	.8155446	01	.1271062	03-	223.53	27.05	27.10
70000.00	.7006986	01	.1120078	03-	217.94	26.92	27.95
71000.00	.5997412	01	.9827331	04-	212.61	26.66	28.55
72000.00	.5114015	01	.8580409	04-	207.64	26.26	28.84
73000.00	.4344154	01	.7467488	04-	202.66	25.75	29.04
74000.00	.3675457	01	.6476871	04-	197.69	25.11	29.14
75000.00	.3096730	01	.5596063	04-	192.78	24.34	29.09
76000.00	.2597840	01	.4815496	04-	187.94	23.44	28.89
77000.00	.2169472	01	.4127817	04-	183.10	22.39	28.59
78000.00	.1803112	01	.3523959	04-	178.25	21.20	28.14
79000.00	.1490978	01	.2997703	04-	173.27	19.83	27.61
80000.00	.1226083	01	.2539171	04-	168.22	18.27	27.02
81000.00	.1002315	01	.2140047	04-	163.16	16.27	26.76
82000.00	.8142871	00	.1793563	04-	158.16	13.58	29.77
83000.00	.6583503	00	.1472463	04-	155.76	10.41	28.04
84000.00	.5305548	00	.1205229	04-	153.36	6.98	26.03
85000.00	.4261407	00	.9834458	05-	150.95	3.30	23.62
86000.00	.3416623	00	.7893029	05-	150.80	.42-	19.28
87000.00	.2739041	00	.6331009	05-	150.72	4.04-	15.02
88000.00	.2194984	00	.5091822	05-	150.18	7.56-	11.20
89000.00	.1756984	00	.4105683	05-	149.08	11.06-	7.76

FIGURE 32

BARROW, 15 AUGUST 1966, 0808 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
345.16	1.91	1.56	246.76	.28	35630.25
304.17	3.98	1.64	265.03	.57	41691.45
53.35	10.75	3.16	274.08	.73	46250.75
119.72	1.97	7.34	275.98	1.19	50038.85
48.38	24.55	6.38	271.99	1.42	53745.50
7.87	.98	18.09	268.28	2.84	57365.75
102.79	33.59	15.39	258.11	2.82	60887.30
61.27	17.47	5.61	245.93	1.08	64332.29
63.68	30.63	10.55	229.82	1.89	68219.60
106.72	25.67	13.32	214.96	1.86	72514.04
54.95	48.11	12.44	187.49	1.78	76657.89
48.53	43.26	14.65	161.85	1.91	80672.60
56.97	60.15	20.81	152.18	2.36	84535.25
248.24	52.30	50.00	151.75	4.16	87754.20
60.51	141.75	77.22	137.30	8.63	90410.35
222.33	118.86	133.87	175.52	16.53	92988.74



WIND COMPONENTS m/sec

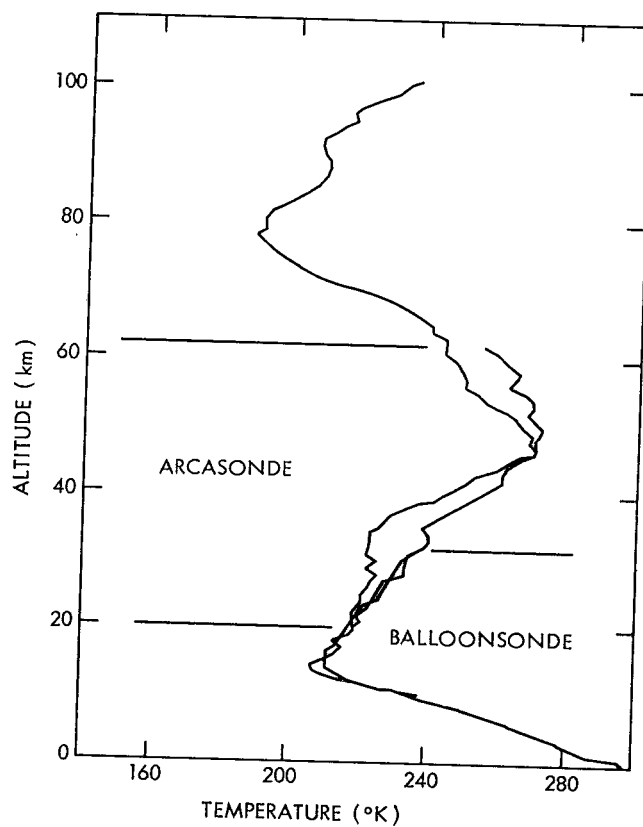
HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-2.12	2.51
45000.00	-5.26	-5.35
50000.00	.90	-1.78
55000.00	-10.99	-12.03
60000.00	5.32	-24.54
65000.00	-9.28	-17.40
70000.00	-4.88	-26.26
75000.00	-13.62	-33.46
80000.00	-28.47	-33.58
85000.00	-25.25	-36.13
90000.00	-56.00	-96.81

LEGEND

— 5 m/sec or less ▲ 50 m/sec
 — 10 m/sec DIRECTION OF NORTH WIND ↓

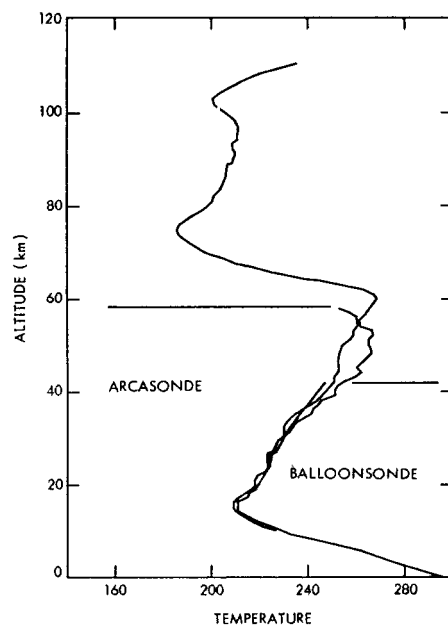
HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)	
30000.00	.1305633	04	.1955973	01-	232.55	9.07	6.24
31000.00	.1129363	04	.1673738	01-	235.07	9.51	5.98
32000.00	.0984502	03	.1434679	01-	237.59	10.05	5.84
33000.00	.8490262	03	.1231822	01-	240.12	10.65	6.43
34000.00	.7378480	03	.1059383	01-	242.64	11.22	7.14
35000.00	.6421880	03	.9125449	02-	245.16	11.76	7.82
36000.00	.5597777	03	.7867591	02-	247.87	12.28	8.40
37000.00	.4887326	03	.6786530	02-	250.88	12.80	8.83
38000.00	.4274142	03	.5864601	02-	253.30	13.33	9.28
39000.00	.3743965	03	.5076864	02-	256.91	13.85	9.73
40000.00	.3284757	03	.4402517	02-	259.93	14.39	10.18
41000.00	.2886340	03	.3824175	02-	262.94	14.93	10.64
42000.00	.2539896	03	.3330997	02-	265.64	15.46	11.22
43000.00	.2237637	03	.2912820	02-	267.62	15.96	12.07
44000.00	.1973272	03	.2549767	02-	269.61	16.42	12.87
45000.00	.1741814	03	.2234233	02-	271.60	16.82	13.62
46000.00	.1538963	03	.1959707	02-	273.58	17.17	14.32
47000.00	.1360668	03	.1727161	02-	274.45	17.45	15.41
48000.00	.1203445	03	.1524813	02-	274.95	17.64	15.80
49000.00	.1064668	03	.1346530	02-	275.45	17.85	15.80
50000.00	.9421379	02	.1189404	02-	275.95	18.09	15.82
51000.00	.8336441	02	.1056322	02-	274.94	18.31	16.47
52000.00	.7373291	02	.9379521	03-	273.86	18.48	17.10
53000.00	.6518513	02	.8324885	03-	272.78	18.61	17.20
54000.00	.5760259	02	.7385290	03-	271.72	18.78	16.97
55000.00	.5087984	02	.2548034	03-	270.70	19.01	16.77
56000.00	.4492231	02	.5803274	03-	269.67	19.29	16.62
57000.00	.3964509	02	.5141058	03-	268.65	19.63	16.52
58000.00	.3496279	02	.4571412	03-	266.44	19.99	16.95
59000.00	.3079748	02	.4070916	03-	263.56	20.32	17.67
60000.00	.2709160	02	.3620733	03-	260.67	20.61	18.35
61000.00	.2379816	02	.3217112	03-	257.71	20.85	19.02
62000.00	.2087157	02	.2860723	03-	254.17	21.02	19.54
63000.00	.1827202	02	.2539741	03-	250.64	21.20	19.50
64000.00	.1596673	02	.2251060	03-	247.10	21.41	19.50
65000.00	.1392419	02	.1994915	03-	243.16	21.64	19.70
66000.00	.1211564	02	.1765897	03-	239.02	21.87	20.02
67000.00	.1051683	02	.1559909	03-	234.87	22.10	20.32
68000.00	.9106434	01	.1374971	03-	230.73	22.31	20.62
69000.00	.7866345	01	.1206615	03-	227.12	22.54	20.66
70000.00	.6779853	01	.1056052	03-	223.66	22.81	20.64
71000.00	.5830168	01	.9223994	04-	220.20	23.12	20.66
72000.00	.5001777	01	.8039752	04-	216.74	23.49	20.73
73000.00	.4278313	01	.7039267	04-	211.73	23.85	21.64
74000.00	.3643737	01	.6188912	04-	205.11	24.03	23.40
75000.00	.3087117	01	.5418594	04-	198.48	23.96	24.99
76000.00	.2600979	01	.4723035	04-	191.85	23.59	26.41
77000.00	.2178436	01	.4095485	04-	185.30	22.90	27.58
78000.00	.1813190	01	.3530511	04-	178.92	21.87	28.38
79000.00	.1490235	01	.3027273	04-	172.53	20.49	28.87
80000.00	.1230857	01	.2580908	04-	166.14	18.74	29.11
81000.00	.1003608	01	.2171256	04-	161.03	16.42	30.64
82000.00	.8144066	00	.1789746	04-	158.52	13.59	29.50
83000.00	.6587232	00	.1470838	04-	156.02	10.48	27.89
84000.00	.5310112	00	.1205005	04-	153.52	7.07	26.00
85000.00	.4269124	00	.9777100	05-	152.12	3.49	22.90
86000.00	.3428627	00	.7859193	05-	151.98	.07-	18.77
87000.00	.2753279	00	.6316765	05-	151.85	3.54-	14.76
88000.00	.2208582	00	.5115577	05-	150.41	6.99-	11.71
89000.00	.1762654	00	.4235936	05-	144.96	10.77-	11.17
90000.00	.1394777	00	.3482575	05-	139.52	15.15-	9.86
91000.00	.1104711	00	.2635386	05-	146.03	19.35-	1.43
92000.00	.8892075	01-	.1925795	05-	160.86	22.33-	9.88-

FIGURE 33
WALLOPS ISLAND, 26 AUG. 1966, 1911 GMT.



HEIGHT meters	PRESSURE n/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
11000.00	.3073703	.4200000	236.60	8.67	2.53
11500.00	.3073706	.4200000	236.60	8.64	2.56
12000.00	.3133153	.4200000	216.40	8.96	9.25
12500.00	.3133154	.4200000	209.60	8.96	13.27
13000.00	.3184594	.4200000	206.70	9.11	14.10
13500.00	.3171553	.4200000	211.40	8.20	11.42
14000.00	.3115000	.4200000	213.60	7.78	9.32
14500.00	.3053254	.4200000	215.60	7.71	8.22
15000.00	.3145007	.4200000	213.20	7.67	9.32
15500.00	.4050428	.4200000	218.40	7.66	6.73
16000.00	.4050428	.4200000	213.60	7.78	6.26
16500.00	.5116147	.4200000	213.19	7.37	7.11
17000.00	.4373974	.4200000	218.69	8.64	7.89
17500.00	.4373974	.4200000	213.60	8.06	7.98
18000.00	.3213059	.4200000	221.40	8.12	7.58
18500.00	.2744441	.4200000	221.00	7.73	8.27
19000.00	.2359036	.4200000	222.50	7.83	8.00
19500.00	.2025500	.4200000	223.19	7.79	8.19
20000.00	.1746523	.4200000	225.30	8.06	7.67
20500.00	.1506543	.4200000	222.60	8.35	9.41
21000.00	.1290560	.4200000	224.90	7.81	8.63
21500.00	.1109242	.4200000	222.10	7.56	10.18
22000.00	.9532550	.4200000	222.80	7.22	9.92
22500.00	.8125995	.4200000	222.80	6.68	10.60
23000.00	.7036422	.4200000	222.80	6.10	11.25
23500.00	.6062158	.4200000	225.50	5.57	10.59
24000.00	.5222327	.4200000	227.30	4.83	10.22
24500.00	.4506296	.4200000	228.90	4.01	9.85
25000.00	.3869313	.4200000	233.60	3.22	8.07
25500.00	.3373056	.4200000	240.20	2.58	5.69
26000.00	.2933002	.4200000	244.50	2.14	4.61
26500.00	.2559790	.4200000	247.60	1.92	4.15
27000.00	.2234816	.4200000	250.90	1.82	3.51
27500.00	.1944507	.4200000	253.89	.88	3.12
28000.00	.1706526	.4200000	259.60	.68	1.81
28500.00	.1506543	.4200000	262.40	1.04	1.71
29000.00	.1326557	.4200000	265.60	1.30	1.51
29500.00	.1170570	.4200000	270.00	1.04	.90
30000.00	.1033248	.4200000	268.50	1.30	1.77
30500.00	.9119251	.4200000	269.00	.94	1.47
31000.00	.8039339	.4200000	266.60	.77	2.25
31500.00	.7077343	.4200000	265.30	.47	2.54
32000.00	.6235487	.4200000	263.40	.26	3.00
32500.00	.5479549	.4200000	258.19	.20	4.18
33000.00	.4812938	.4200000	255.20	.74	4.05
33500.00	.4212987	.4200000	253.20	1.45	3.43
34000.00	.3693029	.4200000	249.60	1.93	3.49
34500.00	.3226401	.4200000	249.69	2.64	1.99
35000.00	.2813102	.4200000	248.60	3.45	1.05
35500.00	.2466464	.4200000	247.90	3.63	.01
36000.00	.2146430	.4200000	246.19	4.43	.62
36500.00	.1866513	.4200000	243.50	5.21	.84
37000.00	.1626533	.4200000	244.00	5.68	2.63
37500.00	.1426549	.4200000	244.00	5.37	4.48
38000.00	.1236565	.4200000	239.60	5.81	4.44
38500.00	.1077245	.4200000	238.80	5.88	5.79
39000.00	.9345898	.4200000	236.00	5.98	6.20
39500.00	.8105999	.4200000	233.40	5.88	6.66
40000.00	.7026089	.4200000	228.50	5.62	6.13
40500.00	.6052836	.4200000	223.50	5.70	5.60
41000.00	.5199572	.4200000	216.10	5.81	4.26
41500.00	.4439634	.4200000	210.40	6.23	3.71
42000.00	.3786336	.4200000	206.20	6.51	3.09
42500.00	.3213069	.4200000	200.70	6.98	3.57
43000.00	.2719775	.4200000	192.20	7.41	4.68
43500.00	.2293145	.4200000	194.90	7.92	5.42
44000.00	.1933174	.4200000	192.10	8.14	6.31
44500.00	.1626533	.4200000	190.30	8.23	7.47
45000.00	.1359888	.4200000	188.30	9.59	8.36
45500.00	.1142573	.4200000	191.20	7.16	11.45
46000.00	.9585878	.4200000	190.90	7.52	12.45
46500.00	.8052671	.4200000	192.19	6.58	12.15
47000.00	.6786108	.4200000	195.20	5.34	12.44
47500.00	.5719529	.4200000	199.39	4.07	13.04
48000.00	.4852934	.4200000	202.40	2.14	12.68
48500.00	.4119661	.4200000	205.00	.12	12.07
49000.00	.3506378	.4200000	207.10	2.18	10.83
49500.00	.2986421	.4200000	208.10	4.62	9.15
50000.00	.2546457	.4200000	208.70	7.23	7.18
50500.00	.2173155	.4200000	208.30	9.99	4.72
51000.00	.1853181	.4200000	208.00	12.73	2.20
51500.00	.1573204	.4200000	207.19	14.84	2.00
52000.00	.1346556	.4200000	207.00	17.61	5.75
52500.00	.1145239	.4200000	210.00	19.32	7.77
53000.00	.9785863	.4200000	213.10	21.28	9.66
53500.00	.8385977	.4200000	216.30	23.30	11.47
54000.00	.7196076	.4200000	215.00	25.01	15.07
54500.00	.6172826	.4200000	218.30	26.72	17.05
55000.00	.5319562	.4200000	223.00	28.56	17.83
55500.00	.4586290	.4200000	228.30	30.16	18.42
56000.00	.3973006	.4200000	230.50	32.10	20.62
56500.00	.3439717	.4200000	235.00	33.59	22.62

FIGURE 34
WALLOPS ISLAND, 28 AUG. 1966, 0423 GMT.

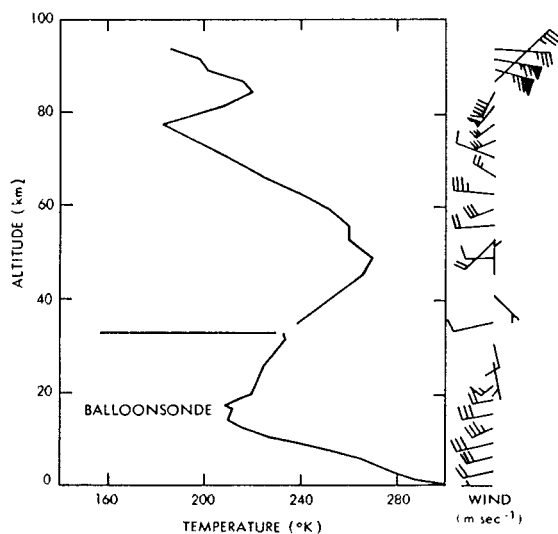


HEIGHT meters	HEIGHT feet	DEPTH meters	DEPTH feet	DEPTH meters	DEPTH feet	DEPTH meters	DEPTH feet
10000.00	32808.40	05	164.0000	00	107.00	0.05	4.26
11000.00	36089.24	05	164.0000	00	111.00	1.00	4.26
12000.00	39370.08	05	164.0000	00	115.00	7.31	7.53
13000.00	42650.92	05	164.0000	00	119.00	0.35	5.77
14000.00	45931.76	05	164.0000	00	123.00	0.21	4.71
15000.00	49212.60	05	164.0000	00	127.00	0.22	3.00
16000.00	52493.44	05	164.0000	00	131.00	0.77	3.42
17000.00	55774.28	05	164.0000	00	135.00	5.15	8.29
18000.00	59055.12	05	164.0000	00	139.00	4.68	5.04
19000.00	62335.96	05	164.0000	00	143.00	4.72	4.30
20000.00	65616.80	05	164.0000	00	147.00	4.88	3.47
21000.00	68897.64	05	164.0000	00	151.00	4.97	3.67
22000.00	72178.48	05	164.0000	00	155.00	5.17	3.70
23000.00	75459.32	05	164.0000	00	159.00	5.37	3.62
24000.00	78740.16	05	164.0000	00	163.00	5.42	3.06
25000.00	82021.00	05	164.0000	00	167.00	5.10	4.28
26000.00	85301.84	05	164.0000	00	171.00	5.00	4.70
27000.00	88582.68	05	164.0000	00	175.00	5.37	5.00
28000.00	91863.52	05	164.0000	00	179.00	5.41	5.17
29000.00	95144.36	05	164.0000	00	183.00	5.43	5.17
30000.00	98425.20	05	164.0000	00	187.00	5.43	5.17
31000.00	101706.04	05	164.0000	00	191.00	5.78	5.74
32000.00	105026.88	05	164.0000	00	195.00	6.32	6.23
33000.00	108347.72	05	164.0000	00	199.00	7.13	7.14
34000.00	111668.56	05	164.0000	00	203.00	7.20	7.20
35000.00	114989.40	05	164.0000	00	207.00	7.52	7.52
36000.00	118310.24	05	164.0000	00	211.00	7.13	7.13
37000.00	121631.08	05	164.0000	00	215.00	7.78	7.78
38000.00	124951.92	05	164.0000	00	219.00	7.75	7.75
39000.00	128272.76	05	164.0000	00	223.00	7.62	7.62
40000.00	131593.60	05	164.0000	00	227.00	6.17	7.31
41000.00	134914.44	05	164.0000	00	231.00	6.36	8.15
42000.00	138235.28	05	164.0000	00	235.00	5.71	8.09
43000.00	141556.12	05	164.0000	00	239.00	5.30	8.40
44000.00	144876.96	05	164.0000	00	243.00	4.71	8.40
45000.00	148197.80	05	164.0000	00	247.00	4.55	9.67
46000.00	151518.64	05	164.0000	00	251.00	3.34	10.25
47000.00	154839.48	05	164.0000	00	255.00	2.43	9.36
48000.00	158160.32	05	164.0000	00	259.00	1.53	8.35
49000.00	161481.16	05	164.0000	00	263.00	1.77	7.11
50000.00	164802.00	05	164.0000	00	267.00	1.09	5.30
51000.00	168122.84	05	164.0000	00	271.00	1.50	4.30
52000.00	171443.68	05	164.0000	00	275.00	1.26	2.77
53000.00	174764.52	05	164.0000	00	279.00	1.57	1.20
54000.00	178085.36	05	164.0000	00	283.00	1.75	1.17
55000.00	181406.20	05	164.0000	00	287.00	1.73	1.73
56000.00	184727.04	05	164.0000	00	291.00	1.53	2.06
57000.00	188047.88	05	164.0000	00	295.00	1.50	4.75
58000.00	191368.72	05	164.0000	00	299.00	1.54	4.90
59000.00	194689.56	05	164.0000	00	303.00	1.97	5.51
60000.00	198010.40	05	164.0000	00	307.00	1.47	4.21
61000.00	201331.24	05	164.0000	00	311.00	1.50	4.50
62000.00	204652.08	05	164.0000	00	315.00	1.13	1.13
63000.00	207972.92	05	164.0000	00	319.00	1.13	5.21
64000.00	211293.76	05	164.0000	00	323.00	1.58	5.34
65000.00	214614.60	05	164.0000	00	327.00	1.19	5.44
66000.00	217935.44	05	164.0000	00	331.00	1.52	7.00
67000.00	221256.28	05	164.0000	00	335.00	2.50	7.30
68000.00	224577.12	05	164.0000	00	339.00	4.12	6.21
69000.00	227897.96	05	164.0000	00	343.00	5.35	4.75
70000.00	231218.80	05	164.0000	00	347.00	7.50	2.71
71000.00	234539.64	05	164.0000	00	351.00	1.30	1.30
72000.00	237860.48	05	164.0000	00	355.00	0.21	0.57
73000.00	241181.32	05	164.0000	00	359.00	10.59	2.09
74000.00	244502.16	05	164.0000	00	363.00	11.00	6.15
75000.00	247823.00	05	164.0000	00	367.00	13.20	5.45
76000.00	251143.84	05	164.0000	00	371.00	13.50	13.15
77000.00	254464.68	05	164.0000	00	375.00	11.35	14.11
78000.00	257785.52	05	164.0000	00	379.00	13.00	17.03
79000.00	261106.36	05	164.0000	00	383.00	11.51	13.40
80000.00	264427.20	05	164.0000	00	387.00	9.93	12.77
81000.00	267748.04	05	164.0000	00	391.00	9.21	17.51
82000.00	271068.88	05	164.0000	00	395.00	0.31	10.70
83000.00	274389.72	05	164.0000	00	399.00	4.56	15.28
84000.00	277710.56	05	164.0000	00	403.00	2.30	13.20
85000.00	281031.40	05	164.0000	00	407.00	1.14	12.34
86000.00	284352.24	05	164.0000	00	411.00	1.32	10.42
87000.00	287673.08	05	164.0000	00	415.00	4.43	8.71
88000.00	290993.92	05	164.0000	00	419.00	6.62	7.44
89000.00	294314.76	05	164.0000	00	423.00	9.40	5.46
90000.00	297635.60	05	164.0000	00	427.00	11.92	1.34
91000.00	300956.44	05	164.0000	00	431.00	14.35	2.01
92000.00	304277.28	05	164.0000	00	435.00	16.40	5.50
93000.00	307598.12	05	164.0000	00	439.00	13.47	8.29
94000.00	310918.96	05	164.0000	00	443.00	19.96	11.47
95000.00	314239.80	05	164.0000	00	447.00	21.30	14.00
96000.00	317560.64	05	164.0000	00	451.00	22.62	17.05
97000.00	320881.48	05	164.0000	00	455.00	23.40	20.30
98000.00	324202.32	05	164.0000	00	459.00	23.73	23.49
99000.00	327523.16	05	164.0000	00	463.00	23.68	26.86
100000.00	330844.00	05	164.0000	00	467.00	22.71	31.24
101000.00	334164.84	05	164.0000	00	471.00	22.13	32.81
102000.00	337485.68	05	164.0000	00	475.00	18.22	33.75
103000.00	340806.52	05	164.0000	00	479.00	17.15	32.02
104000.00	344127.36	05	164.0000	00	483.00	14.53	30.37
105000.00	347448.20	05	164.0000	00	487.00	12.33	28.04
106000.00	350769.04	05	164.0000	00	491.00	10.17	25.72
107000.00	354089.88	05	164.0000	00	495.00	8.38	23.20
108000.00	357410.72	05	164.0000	00	499.00	6.23	19.40
109000.00	360731.56	05	164.0000	00	503.00	4.60	15.38

FIGURE 35

WALLOPS ISLAND, 30 SEPT. 1966, 1735 GMT.

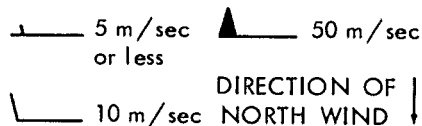
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
255.54	8.67	.90	238.94	.38	35065.00
135.72	4.28	1.09	253.79	.51	40836.75
359.02	2.89	1.67	266.03	.65	45174.90
266.74	8.14	1.23	269.55	.55	48775.50
226.60	21.69	1.48	260.06	.48	52284.60
264.93	19.69	1.10	259.66	.47	55710.40
245.05	27.98	1.14	251.55	.38	59047.95
274.94	35.93	.85	240.02	.33	62294.50
298.17	25.98	.94	224.02	.24	65960.95
281.46	12.07	1.28	210.74	.33	70017.35
252.50	28.92	1.28	196.01	.33	73920.20
243.37	25.85	1.29	182.57	.28	77691.05
211.77	57.81	1.60	207.74	.34	81313.34
197.19	42.01	3.10	219.72	.62	84344.64
45.34	36.13	4.97	215.71	1.03	86843.35
110.33	72.89	5.90	201.64	1.06	89253.45
100.15	75.14	5.83	198.07	1.01	91575.85
94.54	35.59	7.08	186.02	1.13	93763.90



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	2.93	-1.34
45000.00	-2.65	-.07
50000.00	5.50	10.78
55000.00	4.46	18.81
60000.00	7.43	28.42
65000.00	-9.86	26.28
70000.00	-2.44	11.87
75000.00	9.52	26.30
80000.00	35.53	27.78
85000.00	22.94	2.41
90000.00	21.44	-70.15

LEGEND

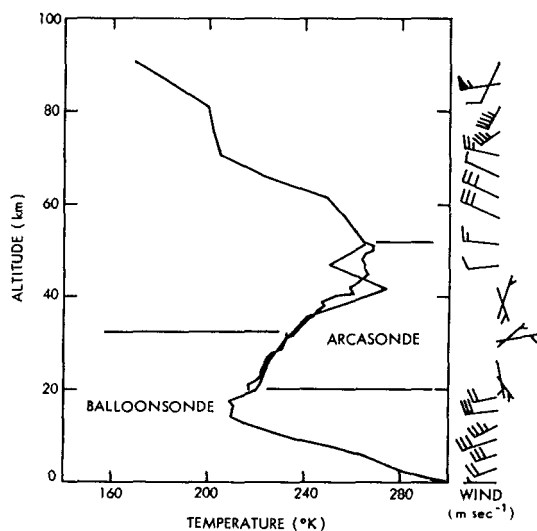


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
30000.00	.1250667	04	.1883184	01-	231.37	4.48	2.29
31000.00	.1081109	04	.1617427	01-	232.86	4.83	2.42
32000.00	.9354518	03	.1390588	01-	234.35	5.21	2.58
33000.00	.8102005	03	.1196765	01-	235.85	5.59	3.41
34000.00	.7023881	03	.1030981	01-	237.34	5.87	4.27
35000.00	.6094553	03	.8890333	02-	238.84	6.07	5.04
36000.00	.5295352	03	.7643922	02-	241.34	6.22	5.31
37000.00	.4607621	03	.6581028	02-	243.91	6.35	5.54
38000.00	.4015238	03	.5675083	02-	246.48	6.46	5.74
39000.00	.3504166	03	.4901588	02-	249.06	6.56	5.94
40000.00	.3062555	03	.4240075	02-	251.63	6.65	6.11
41000.00	.2680407	03	.3672854	02-	254.24	6.73	6.26
42000.00	.2349367	03	.3183897	02-	257.06	6.80	6.31
43000.00	.2062261	03	.2764456	02-	259.89	6.88	6.37
44000.00	.1812864	03	.2404032	02-	262.71	6.95	6.42
45000.00	.1595888	03	.2093807	02-	265.53	7.03	6.48
46000.00	.1406326	03	.1836108	02-	266.83	7.07	7.11
47000.00	.1239997	03	.1613037	02-	267.81	7.03	7.78
48000.00	.1093884	03	.1417791	02-	268.79	6.93	7.67
49000.00	.9652838	02	.1250407	02-	268.94	6.85	7.53
50000.00	.8513226	02	.1113984	02-	266.23	6.71	8.48
51000.00	.7498831	02	.9913140	03-	263.53	6.43	9.30
52000.00	.6596933	02	.8811270	03-	260.83	6.01	10.00
53000.00	.5798660	02	.7770499	03-	259.97	5.51	9.39
54000.00	.5095916	02	.6831900	03-	259.86	5.08	8.20
55000.00	.4478288	02	.6006610	03-	259.74	4.75	7.11
56000.00	.3934794	02	.5293689	03-	258.95	4.48	6.38
57000.00	.3454607	02	.4691676	03-	256.52	4.24	6.33
58000.00	.3029390	02	.4153521	03-	254.09	3.96	6.26
59000.00	.2653272	02	.3672946	03-	251.66	3.66	6.17
60000.00	.2320294	02	.3257287	03-	248.16	3.30	6.47
61000.00	.2025300	02	.2884460	03-	244.61	2.85	6.72
62000.00	.1764373	02	.2549877	03-	241.06	2.30	6.55
63000.00	.1533726	02	.2255137	03-	236.93	1.73	6.11
64000.00	.1329915	02	.1992154	03-	232.57	1.13	5.75
65000.00	.1150129	02	.1755789	03-	228.20	.48	5.35
66000.00	.9919214	01	.1543498	03-	223.88	.21-	4.90
67000.00	.8533576	01	.1347580	03-	220.61	.92-	3.94
68000.00	.7325360	01	.1174201	03-	217.34	1.60-	3.01
69000.00	.6273961	01	.1021043	03-	214.07	2.26-	2.10
70000.00	.5360920	01	.8859956	04-	210.79	2.89-	1.21
71000.00	.4568856	01	.7688233	04-	207.03	3.51-	.57
72000.00	.3882592	01	.6654721	04-	203.25	4.13-	.06-
73000.00	.3289529	01	.5744876	04-	199.48	4.77-	.72-
74000.00	.2778412	01	.4945395	04-	195.72	5.41-	1.39-
75000.00	.2339366	01	.4241193	04-	192.16	6.06-	2.16-
76000.00	.1963470	01	.3627014	04-	188.59	6.70-	2.91-
77000.00	.1642563	01	.3092697	04-	185.03	7.33-	3.65-
78000.00	.1371610	01	.2586965	04-	184.71	7.80-	5.92-
79000.00	.1149043	01	.2088594	04-	191.66	7.64-	11.08-
80000.00	.9687336	00	.1699227	04-	198.61	6.54-	14.99-
81000.00	.8215703	00	.1392366	04-	205.56	4.69-	16.22-
82000.00	.7000789	00	.1158899	04-	210.45	2.34-	16.14-
83000.00	.5985735	00	.9726148	05-	214.40	.39	15.42-
84000.00	.5132756	00	.8189288	05-	218.35	3.49	14.36-
85000.00	.4408167	00	.7023205	05-	218.66	6.86	11.71-
86000.00	.3784325	00	.6073794	05-	217.06	10.28	8.20-
87000.00	.3244484	00	.5262292	05-	214.79	13.66	4.39-
88000.00	.2773587	00	.4624233	05-	208.95	16.80	.98
89000.00	.2360638	00	.4048883	05-	203.12	19.48	6.27
90000.00	.2002508	00	.3479636	05-	200.49	21.82	9.76
91000.00	.1695888	00	.2969603	05-	198.95	23.80	14.30
92000.00	.1433413	00	.2551304	05-	195.73	25.19	19.38
93000.00	.1207018	00	.2210559	05-	190.22	25.76	25.38

FIGURE 36

WALLOPS ISLAND, 30 SEPT. 1966, 2350 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
70.98	2.34	.88	231.71	.73	30453.70
2.96	3.95	1.06	241.18	.52	35777.90
164.60	6.46	1.00	274.22	.47	41771.60
257.21	11.57	.78	250.08	.51	46819.45
275.61	16.93	1.02	265.27	.68	51645.00
290.60	29.84	1.16	257.47	.55	57101.75
290.27	32.05	7.37	248.87	2.60	61763.00
288.85	9.76	2.87	223.18	1.13	66285.49
276.17	25.36	4.71	205.29	1.35	70707.69
232.60	33.66	1.39	202.52	.51	75626.94
217.11	44.92	3.26	200.07	1.12	80997.10
261.85	55.19	2.28	183.04	.70	86112.80
211.06	8.41	4.68	168.50	1.50	90530.30



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-3.47	-.49
40000.00	3.22	-1.26
45000.00	3.88	6.59
50000.00	-.21	14.95
55000.00	-7.09	23.66
60000.00	-10.87	29.25
65000.00	-5.41	15.15
70000.00	-2.79	22.65
75000.00	17.49	26.54
80000.00	32.96	27.03
85000.00	13.91	48.64
90000.00	7.27	10.37

LEGEND

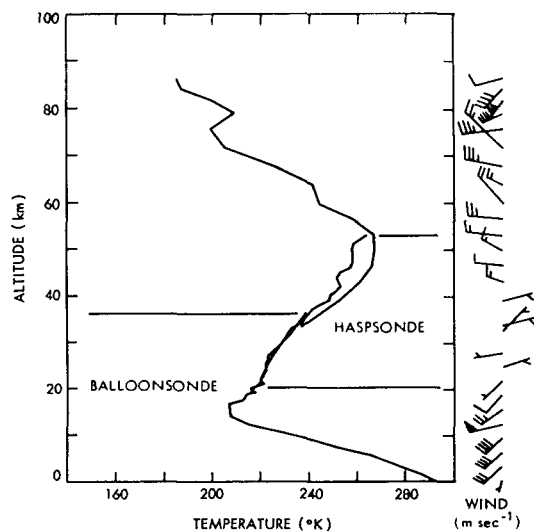
— 5 m/sec or less ▲ 50 m/sec
 | 10 m/sec DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
27000.00	.1649739	04	.2990218	01-	227.15	3.71	2.06
28000.00	.1680545	04	.2562497	01-	228.47	3.98	2.18
29000.00	.1449823	04	.2198010	01-	229.79	4.27	2.33
30000.00	.1251892	04	.1887110	01-	231.11	4.58	2.50
31000.00	.1082020	04	.1620044	01-	232.68	4.92	2.58
32000.00	.9362175	03	.1391117	01-	234.46	5.30	2.62
33000.00	.8100842	03	.1195968	01-	236.23	5.69	3.34
34000.00	.7032904	03	.1029406	01-	238.01	6.01	4.11
35000.00	.6105717	03	.8870695	02-	239.79	6.26	4.81
36000.00	.5307810	03	.7628520	02-	242.39	6.47	5.10
37000.00	.4625067	03	.6499455	02-	247.91	6.75	4.23
38000.00	.4042537	03	.5557273	02-	253.42	7.19	3.55
39000.00	.3543774	03	.4767909	02-	259.93	7.77	3.05
40000.00	.3115302	03	.4104057	02-	264.45	8.49	2.71
41000.00	.2746035	03	.3543719	02-	269.96	9.34	2.52
42000.00	.2425522	03	.3093872	02-	273.12	10.26	3.30
43000.00	.2141702	03	.2780529	02-	268.34	10.99	6.98
44000.00	.1886940	03	.2434225	02-	263.56	11.32	10.41
45000.00	.1658698	03	.2233044	02-	258.77	11.24	13.56
46000.00	.1454622	03	.1995172	02-	253.99	10.75	16.39
47000.00	.1273014	03	.1769416	02-	250.64	9.88	18.23
48000.00	.1114066	03	.1529286	02-	253.79	8.90	16.14
49000.00	.9766078	02	.1324176	02-	256.94	8.10	13.87
50000.00	.8575185	02	.1148634	02-	260.08	7.48	11.85
51000.00	.7541599	02	.9981088	03-	263.23	7.03	10.05
52000.00	.6640401	02	.8737835	03-	264.75	6.71	9.09
53000.00	.5847255	02	.7735916	03-	263.32	6.40	8.91
54000.00	.5145486	02	.6844617	03-	261.90	6.11	8.40
55000.00	.4524956	02	.6052195	03-	260.47	5.84	7.93
56000.00	.3976607	02	.5348109	03-	259.04	5.60	7.47
57000.00	.3492353	02	.4722891	03-	257.61	5.38	7.04
58000.00	.3064688	02	.4173743	03-	255.81	5.18	6.78
59000.00	.2686991	02	.3685950	03-	253.96	4.98	6.54
60000.00	.2353681	02	.3252350	03-	252.12	4.79	6.31
61000.00	.2059799	02	.2867241	03-	250.27	4.60	6.08
62000.00	.1800465	02	.2534130	03-	247.52	4.40	5.89
63000.00	.1570196	02	.2261928	03-	241.84	4.15	6.43
64000.00	.1364590	02	.2013607	03-	236.16	3.79	6.89
65000.00	.1182617	02	.1787560	03-	230.48	3.31	7.26
66000.00	.1020996	02	.1582253	03-	224.80	2.71	7.54
67000.00	.8785462	01	.1389384	03-	220.29	2.00	7.17
68000.00	.7537833	01	.1214381	03-	216.24	1.24	6.53
69000.00	.6449010	01	.1058777	03-	212.20	.46	5.87
70000.00	.5501188	01	.9207231	04-	208.15	.34-	5.18
71000.00	.4680162	01	.7948740	04-	205.12	1.15-	3.98
72000.00	.3976236	01	.6771828	04-	204.56	1.82-	1.69
73000.00	.3376836	01	.5766915	04-	203.99	2.24-	.34-
74000.00	.2866640	01	.4909189	04-	203.43	2.41-	2.11-
75000.00	.2432546	01	.4177381	04-	202.86	2.32-	3.63-
76000.00	.2063381	01	.3552589	04-	202.34	1.95-	4.90-
77000.00	.1749630	01	.3019191	04-	201.88	1.29-	5.94-
78000.00	.1483114	01	.2565072	04-	201.43	.30-	6.72-
79000.00	.1256789	01	.2178566	04-	200.97	1.01	7.25-
80000.00	.1064656	01	.1849708	04-	200.52	2.70	7.46-
81000.00	.9015992	00	.1570048	04-	200.05	4.58	5.53-
82000.00	.7623409	00	.1350002	04-	196.73	6.33	2.31-
83000.00	.6427832	00	.1157869	04-	193.40	7.80	.68
84000.00	.5404022	00	.9904918	05-	190.07	8.96	3.57
85000.00	.4529626	00	.8450217	05-	186.74	9.80	6.22
86000.00	.3784890	00	.7189002	05-	183.41	10.30	8.64
87000.00	.3152441	00	.6097340	05-	180.12	10.44	10.78
88000.00	.2616976	00	.5155930	05-	176.82	10.20	12.59
89000.00	.2165000	00	.4346401	05-	173.53	9.58	14.07
90000.00	.1784696	00	.3652222	05-	170.24	8.57	15.21

FIGURE 37

WALLOPS ISLAND, 1 OCT. 1966, 0530 GMT.

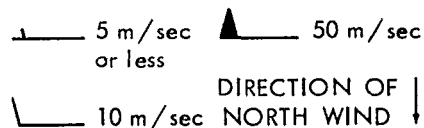
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
70.33	2.72	.79	236.75	.30	33402.80
70.73	2.63	.94	251.97	.45	38929.54
297.49	14.07	1.03	260.65	.66	43076.85
279.71	11.52	1.21	265.68	.72	46516.55
307.93	16.15	1.30	267.41	.74	49861.45
279.30	14.96	1.01	267.42	.62	53120.05
277.56	25.18	.93	258.02	.51	56291.95
320.31	22.00	1.23	244.16	.43	59867.30
294.77	16.73	.93	241.10	.42	63809.50
286.70	35.20	.84	227.44	.33	67604.74
312.69	22.80	1.60	205.87	.43	71695.14
265.29	33.31	1.95	198.83	.79	75603.85
247.39	38.21	1.89	209.15	.75	78888.15
203.84	61.95	2.70	200.14	.75	81651.80
212.84	40.33	3.13	187.20	.81	83917.80
258.00	10.51	4.05	185.10	1.18	86099.30



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-.90	-2.53
40000.00	-2.32	1.38
45000.00	-3.94	11.85
50000.00	-9.60	12.82
55000.00	-2.94	20.81
60000.00	-16.59	14.08
65000.00	-7.98	21.00
70000.00	-13.24	23.79
75000.00	-.07	30.66
80000.00	31.57	31.16
85000.00	18.15	16.12

LEGEND

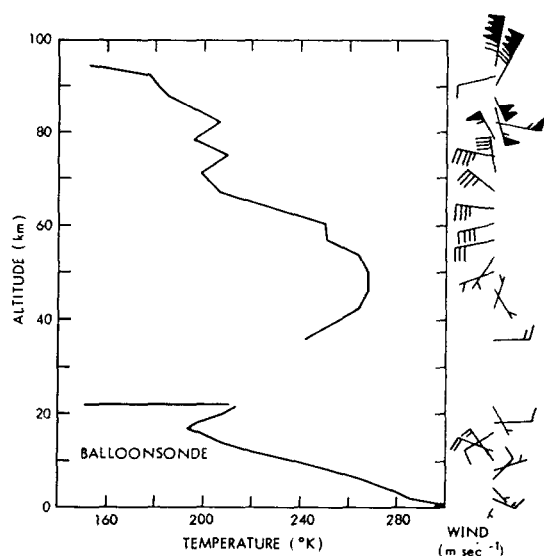


HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)	
29000.00	.1432517	04	.2180660	01-	228.86	3.02	1.53
30000.00	.1236394	04	.1867437	01-	230.65	3.28	1.43
31000.00	.1068387	04	.1601299	01-	232.44	3.60	1.39
32000.00	.9242868	03	.1374730	01-	234.23	3.96	1.41
33000.00	.8005413	03	.1181643	01-	236.02	4.33	2.10
34000.00	.6942671	03	.1014605	01-	238.39	4.65	2.61
35000.00	.6030438	03	.8712242	02-	241.14	4.95	2.94
36000.00	.5246683	03	.7494339	02-	243.89	5.24	3.25
37000.00	.4572130	03	.6457879	02-	246.65	5.53	3.56
38000.00	.3990565	03	.5574204	02-	249.40	5.81	3.86
39000.00	.3488286	03	.4820262	02-	252.11	6.08	4.18
40000.00	.3053247	03	.4184355	02-	254.21	6.33	4.72
41000.00	.2675497	03	.3636708	02-	256.30	6.53	5.21
42000.00	.2347098	03	.3164475	02-	258.39	6.70	5.66
43000.00	.2061269	03	.2756766	02-	260.49	6.82	6.07
44000.00	.1811912	03	.2409357	02-	262.00	6.90	6.66
45000.00	.1593999	03	.2107808	02-	263.46	6.90	7.19
46000.00	.1403319	03	.1845436	02-	264.92	6.84	7.66
47000.00	.1236231	03	.1619558	02-	265.92	6.70	8.22
48000.00	.1089476	03	.1424515	02-	266.44	6.50	8.18
49000.00	.9604158	02	.1253322	02-	266.96	6.31	7.78
50000.00	.8468729	02	.1103299	02-	267.41	6.15	7.44
51000.00	.7472263	02	.9734730	03-	267.41	6.05	7.34
52000.00	.6592738	02	.8588830	03-	267.41	5.94	7.23
53000.00	.5817462	02	.7578762	03-	267.41	5.86	6.69
54000.00	.5127886	02	.6746175	03-	264.81	5.74	6.85
55000.00	.4514200	02	.6006017	03-	261.85	5.59	7.10
56000.00	.3968356	02	.5340213	03-	258.88	5.38	7.31
57000.00	.3482911	02	.4753220	03-	255.27	5.09	7.73
58000.00	.3051088	02	.4228096	03-	251.40	4.71	8.17
59000.00	.2667422	02	.3754308	03-	247.52	4.22	8.52
60000.00	.2327427	02	.3322278	03-	244.06	3.62	8.59
61000.00	.2028448	02	.2904743	03-	243.28	3.01	7.47
62000.00	.1767174	02	.2538700	03-	242.50	2.47	6.08
63000.00	.1538939	02	.2217922	03-	241.73	2.08	4.36
64000.00	.1339437	02	.1940952	03-	240.41	1.85	3.03
65000.00	.1164181	02	.1712631	03-	236.81	1.70	2.76
66000.00	.1009729	02	.1508341	03-	233.21	1.57	2.51
67000.00	.8738711	01	.1325857	03-	229.62	1.45	2.27
68000.00	.7544403	01	.1166300	03-	225.35	1.33	2.31
69000.00	.6493144	01	.1027845	03-	220.08	1.15	2.78
70000.00	.5568327	01	.9030960	04-	214.80	.86	3.17
71000.00	.4757253	01	.7909774	04-	209.53	.46	3.47
72000.00	.4049920	01	.6871365	04-	205.31	.00-	3.19
73000.00	.3439792	01	.5888294	04-	203.51	.42-	1.75
74000.00	.2917496	01	.5038767	04-	201.71	.68-	.47
75000.00	.2470985	01	.4306012	04-	199.91	.78-	.66-
76000.00	.2091499	01	.3641832	04-	200.07	.61-	2.52-
77000.00	.1772791	01	.3039164	04-	203.21	.01	5.2-
78000.00	.1506541	01	.2543405	04-	206.35	1.26	7.51-
79000.00	.1283140	01	.2141086	04-	208.78	3.13	8.85-
80000.00	.1092566	01	.1851995	04-	205.52	5.39	7.35-
81000.00	.9279563	00	.1598308	04-	202.26	7.64	3.83-
82000.00	.7858197	00	.1381586	04-	198.15	9.61	.02-
83000.00	.6627083	00	.1199721	04-	192.44	11.14	4.32
84000.00	.5561538	00	.1035454	04-	187.12	12.14	8.27
85000.00	.4653871	00	.8709442	05-	186.15	12.82	9.48
86000.00	.3890959	00	.7319548	05-	185.19	13.39	10.61

FIGURE 38

NATAL, 1 OCTOBER 1966, 0823 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
86.21	13.01	1.37	242.38	.20	35896.80
10.28	6.55	2.62	264.39	.45	42269.85
150.45	5.97	3.79	268.18	.55	46558.60
251.99	3.41	2.98	267.75	.77	50125.60
213.52	6.96	3.37	264.27	.62	53608.65
258.05	31.14	10.59	251.06	1.44	56992.90
254.68	41.29	15.23	249.67	2.21	60274.45
279.68	32.53	16.12	229.17	2.37	63469.45
310.42	33.04	7.70	206.58	1.28	67085.85
356.15	39.30	4.85	199.34	.86	71089.65
281.04	42.61	14.05	209.82	2.07	74938.60
331.93	53.02	14.15	195.95	3.03	78650.10
102.21	54.64	17.68	205.84	2.92	82218.30
172.67	56.47	19.46	195.24	3.24	85201.55
168.30	98.73	28.15	185.83	4.48	87655.94
24.33	179.58	28.55	181.25	4.43	90038.94
258.27	9.60	30.88	177.94	4.67	92323.05
5.26	218.79	26.11	153.41	3.93	94458.44



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-4.45	-5.37
45000.00	.96	-2.29
50000.00	1.20	3.02
55000.00	6.06	14.78
60000.00	10.53	39.04
65000.00	-12.22	29.14
70000.00	-34.37	8.76
75000.00	-8.79	41.54
80000.00	-24.71	-4.68
85000.00	53.00	-10.32
90000.00	-159.37	-73.09

LEGEND

5 m/sec or less 50 m/sec

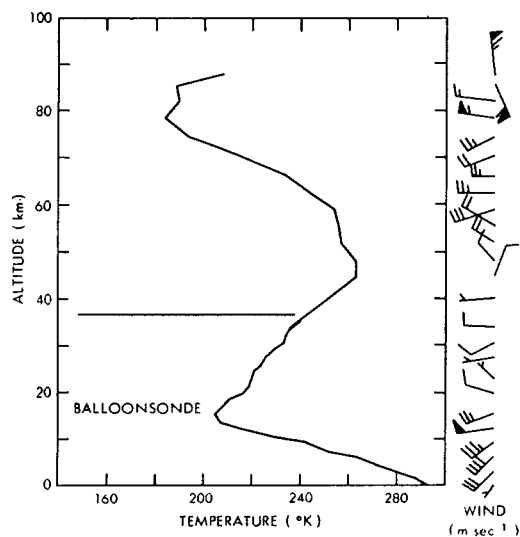
 10 m/sec 50 m/sec
 DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt, sq meter		DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)	
30000.00	.1195494	04	.1809027	01-	230.22	.12-	1.73-
31000.00	.1033156	04	.1549512	01-	232.28	.18	1.83-
32000.00	.8940535	03	.1323102	01-	234.34	.56	1.94-
33000.00	.7746941	03	.1141627	01-	236.40	.96	1.35-
34000.00	.6721344	03	.9819340	02-	238.46	1.31	.68-
35000.00	.5838908	03	.8457119	02-	240.52	1.61	.07-
36000.00	.5078847	03	.7289453	02-	242.73	1.87	.43
37000.00	.4425043	03	.6261973	02-	246.18	2.13	.42
38000.00	.3862978	03	.5390949	02-	249.64	2.42	.45
39000.00	.3378747	03	.4650837	02-	253.09	2.75	.52
40000.00	.2960707	03	.4020539	02-	256.54	3.10	.62
41000.00	.2599081	03	.3482578	02-	260.00	3.49	.75
42000.00	.2285643	03	.3022442	02-	263.45	3.90	.92
43000.00	.2012547	03	.2645470	02-	265.93	4.30	1.79
44000.00	.1773200	03	.2323101	02-	265.91	4.61	2.84
45000.00	.1563035	03	.2040973	02-	266.80	4.83	3.79
46000.00	.1378408	03	.1793947	02-	267.68	4.94	4.65
47000.00	.1216017	03	.1577996	02-	268.12	4.96	5.58
48000.00	.1072872	03	.1394626	02-	268.00	4.88	5.91
49000.00	.946551	02	.1230980	02-	267.88	4.76	5.86
50000.00	.8351022	02	.1086517	02-	267.77	4.67	5.80
51000.00	.7366305	02	.9615236	03-	266.88	4.54	6.03
52000.00	.6455058	02	.8510505	03-	265.88	4.37	6.25
53000.00	.5724372	02	.7528988	03-	264.88	4.16	5.99
54000.00	.5041544	02	.6684811	03-	262.74	3.96	5.87
55000.00	.4433812	02	.5967648	03-	258.84	3.71	6.42
56000.00	.3891894	02	.5318461	03-	254.33	3.35	6.87
57000.00	.3409508	02	.4731241	03-	251.05	2.88	7.23
58000.00	.2983648	02	.4147301	03-	250.63	2.40	6.10
59000.00	.2610498	02	.3634772	03-	250.21	1.99	5.07
60000.00	.2283596	02	.3185006	03-	249.78	1.67	4.11
61000.00	.1994903	02	.2836541	03-	245.01	1.30	4.94
62000.00	.1737336	02	.2536731	03-	238.59	.74	6.00
63000.00	.1507399	02	.2261812	03-	232.18	.00-	6.42
64000.00	.1302799	02	.2009561	03-	225.85	.93-	6.68
65000.00	.1121395	02	.1778940	03-	219.61	2.03-	6.74
66000.00	.9611298	01	.1565331	03-	213.36	3.31-	6.66
67000.00	.8200433	01	.1379341	03-	207.12	4.79-	6.39
68000.00	.6974389	01	.1185660	03-	204.93	6.31-	4.01
69000.00	.5922540	01	.1015818	03-	203.11	7.73-	1.58
70000.00	.5022226	01	.8691459	04-	201.30	9.02-	.70-
71000.00	.4252654	01	.7426431	04-	199.49	10.18-	2.84-
72000.00	.3601947	01	.6217899	04-	201.81	11.06-	6.62-
73000.00	.3057248	01	.5207350	04-	204.53	11.49-	10.01-
74000.00	.2600684	01	.4371497	04-	207.26	11.46-	12.83-
75000.00	.2216752	01	.3684787	04-	209.58	10.98-	14.99-
76000.00	.1888564	01	.3196217	04-	205.85	10.26-	14.44-
77000.00	.1604331	01	.2765355	04-	202.11	9.48-	13.85-
78000.00	.1358805	01	.2386244	04-	198.38	8.66-	13.22-
79000.00	.1148411	01	.2031697	04-	196.92	7.69-	13.50-
80000.00	.9711830	00	.1694306	04-	199.69	6.31-	15.24-
81000.00	.8232482	00	.1416551	04-	202.46	4.50-	14.76-
82000.00	.6994528	00	.1187289	04-	205.23	2.43-	14.08-
83000.00	.5944451	00	.1019844	04-	203.06	.30-	11.31-
84000.00	.5040586	00	.8801828	05-	199.51	1.64	7.96-
85000.00	.4261721	00	.7576778	05-	195.95	3.71	4.75-
86000.00	.3591983	00	.6511642	05-	192.17	4.68	1.59-
87000.00	.3017318	00	.5581261	05-	188.34	5.70	1.40
88000.00	.2526453	00	.4753439	05-	185.16	6.39	3.80
89000.00	.2110379	00	.4012176	05-	183.24	6.82	5.30
90000.00	.1759590	00	.3380663	05-	181.33	7.04	6.64
91000.00	.1464695	00	.2837080	05-	179.86	6.92	9.20
92000.00	.1217469	00	.2377394	05-	178.40	6.33	11.25
93000.00	.1006807	00	.2061273	05-	170.16	4.90	16.91
94000.00	.8231750	01-	.1807298	05-	158.67	2.02	23.87

FIGURE 39

WALLOPS ISLAND, 1 OCT. 1966, 1128 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
276.49	11.18	.74	236.69	.45	34285.95
265.60	2.48	1.44	251.67	.70	40257.60
11.73	11.75	2.84	262.57	1.00	44743.85
324.25	7.70	2.12	262.68	1.04	48462.25
300.80	18.55	1.95	256.77	1.16	52076.00
297.39	20.05	2.59	255.95	1.52	55595.80
253.19	28.87	2.25	253.92	1.42	59027.20
269.62	22.84	1.45	243.89	.79	62369.40
268.46	25.09	.96	234.36	.46	66144.60
251.62	21.73	1.09	214.65	.48	70328.60
244.98	22.54	2.11	193.73	.72	74354.20
279.99	55.14	3.98	184.51	1.08	78254.60
276.12	13.09	3.62	189.79	1.06	82004.19
164.25	61.58	6.79	189.40	1.68	85135.85
350.44	66.71	7.92	207.88	2.08	87728.15



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	-1.09	10.07
40000.00	.12	2.84
45000.00	-11.14	-1.91
50000.00	-7.63	9.36
55000.00	-9.27	17.48
60000.00	5.96	26.24
65000.00	.51	24.40
70000.00	6.36	20.97
75000.00	6.37	26.03
80000.00	-5.76	35.08
85000.00	56.63	-15.42

LEGEND

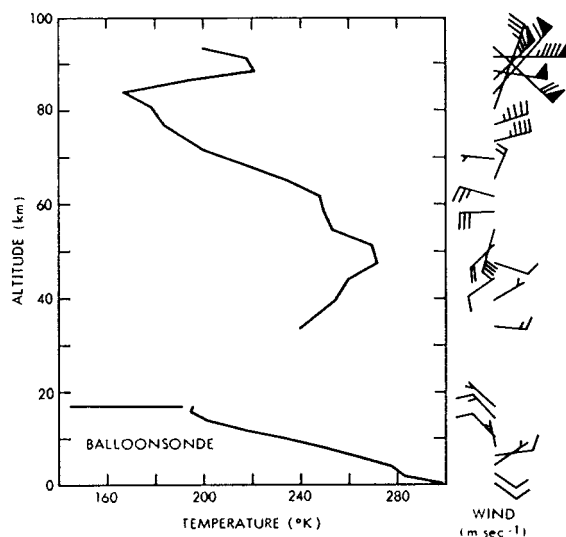
5 m/sec or less
 50 m/sec
 10 m/sec
 DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
27000.00	.1432517	04	.2180660	01-	228.86	3.02	1.53
30000.00	.1236271	04	.1869820	01-	230.34	3.27	1.56
31000.00	.1067568	04	.1604945	01-	231.82	3.55	1.63
32000.00	.9234797	03	.1378924	01-	233.30	3.87	1.73
33000.00	.7993105	03	.1186046	01-	234.78	4.17	2.48
34000.00	.6924964	03	.1021109	01-	236.26	4.38	3.27
35000.00	.6006529	03	.8774573	02-	238.48	4.53	3.67
36000.00	.5217436	03	.7542503	02-	240.99	4.65	3.92
37000.00	.4538820	03	.6493882	02-	243.49	4.76	4.14
38000.00	.3954283	03	.5599873	02-	246.00	4.85	4.34
39000.00	.3449994	03	.4836409	02-	248.51	4.92	4.53
40000.00	.3014271	03	.4183362	02-	251.02	4.97	4.69
41000.00	.2637186	03	.3624646	02-	253.47	5.01	4.86
42000.00	.2310324	03	.3145244	02-	255.90	5.03	5.02
43000.00	.2026591	03	.2733023	02-	258.33	5.03	5.16
44000.00	.1779957	03	.2378050	02-	260.76	5.01	5.27
45000.00	.1565048	03	.2076478	02-	262.57	4.96	5.60
46000.00	.1376809	03	.1826531	02-	262.60	4.82	6.55
47000.00	.1211263	03	.1606740	02-	262.63	4.55	7.36
48000.00	.1065661	03	.1413448	02-	262.66	4.17	7.34
49000.00	.9374008	02	.1247440	02-	261.73	3.76	7.27
50000.00	.8241046	02	.1103557	02-	260.16	3.29	7.46
51000.00	.7239432	02	.9755563	03-	258.53	2.74	7.57
52000.00	.6354592	02	.8617640	03-	256.89	2.11	7.53
53000.00	.5575320	02	.7570872	03-	256.55	1.45	6.58
54000.00	.4891100	02	.6647811	03-	256.32	.86	5.29
55000.00	.4290510	02	.5836835	03-	256.08	.35	4.08
56000.00	.3763226	02	.5127094	03-	255.70	.06-	3.03
57000.00	.3300063	02	.4506502	03-	255.11	.42-	2.13
58000.00	.2893143	02	.3960007	03-	254.52	.70-	1.31
59000.00	.2535723	02	.3478877	03-	253.93	.92-	.56
60000.00	.2220504	02	.3082028	03-	250.99	1.13-	.74
61000.00	.1941485	02	.2727349	03-	248.00	1.40-	.90
62000.00	.1694825	02	.2409999	03-	245.00	1.72-	.70
63000.00	.1477217	02	.2123970	03-	242.30	2.01-	.05-
64000.00	.1285688	02	.1868044	03-	239.77	2.23-	.83-
65000.00	.1117398	02	.1640797	03-	237.25	2.37-	1.54-
66000.00	.9697229	01	.1439260	03-	234.72	2.44-	2.17-
67000.00	.8398266	01	.1270260	03-	230.33	2.49-	2.01-
68000.00	.7252758	01	.1119914	03-	225.62	2.58-	1.75-
69000.00	.6244425	01	.9847862	04-	220.90	2.72-	1.52-
70000.00	.5359203	01	.8636056	04-	216.19	2.92-	1.34-
71000.00	.4583673	01	.7562546	04-	211.15	3.19-	1.06-
72000.00	.3905556	01	.6606299	04-	205.26	3.57-	.79-
73000.00	.3314341	01	.5751356	04-	200.76	4.05-	.60-
74000.00	.2800689	01	.4989149	04-	195.56	4.66-	.51-
75000.00	.2357996	01	.4274127	04-	192.20	5.31-	1.40-
76000.00	.1980271	01	.3634160	04-	189.83	5.90-	2.72-
77000.00	.1659510	01	.3083910	04-	187.47	6.37-	3.92-
78000.00	.1387667	01	.2611671	04-	185.10	6.72-	5.03-
79000.00	.1159352	01	.2176707	04-	185.55	6.82-	7.33-
80000.00	.9695212	00	.1806588	04-	186.96	6.47-	9.62-
81000.00	.8119058	00	.1501583	04-	188.37	5.81-	9.65-
82000.00	.6808497	00	.1249659	04-	189.77	5.03-	9.56-
83000.00	.5713185	00	.1049439	04-	189.66	4.18-	8.74-
84000.00	.4793811	00	.8811371	05-	189.53	3.33-	7.86-
85000.00	.4022129	00	.7397800	05-	189.41	2.49-	7.00-
86000.00	.3384098	00	.6028765	05-	195.55	1.37-	8.89-
87000.00	.2863850	00	.4922520	05-	202.68	.33	10.56-

FIGURE 40

NATAL, 1 OCTOBER 1966, 2039 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
97.94	12.77	1.43	239.91	.27	33820.20
59.87	5.06	2.55	254.37	.52	39656.60
238.07	7.94	5.49	260.31	1.59	44028.29
116.11	7.75	11.25	271.80	2.11	47661.69
229.94	17.63	6.57	269.43	1.62	51225.15
195.15	38.63	5.05	252.93	1.31	54690.95
267.17	31.35	7.14	250.64	1.37	58065.65
291.51	26.76	9.87	248.31	2.20	61364.95
10.12	20.16	7.72	233.79	1.83	65087.94
276.10	5.29	3.46	213.41	1.61	69189.24
73.68	42.91	8.90	200.21	1.63	73142.95
68.91	45.61	10.34	183.74	1.73	76959.20
11.09	36.10	14.95	178.82	2.64	80613.65
33.95	60.38	18.55	166.88	2.95	83685.90
46.34	77.45	8.29	193.77	1.45	86217.24
100.04	48.42	22.75	220.86	4.04	88663.30
39.31	96.48	35.87	218.21	6.44	91026.80
135.15	68.25	94.64	200.22	13.38	93249.44



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	.89	-10.97
40000.00	-2.01	-3.50
45000.00	3.98	3.07
50000.00	8.61	6.46
55000.00	31.30	7.87
60000.00	-17.33	8.76
65000.00	-19.61	-2.87
70000.00	-2.92	-4.26
75000.00	-14.17	-41.85
80000.00	-32.23	-12.92
85000.00	-51.84	-45.30
90000.00	3.01	-75.27

LEGEND

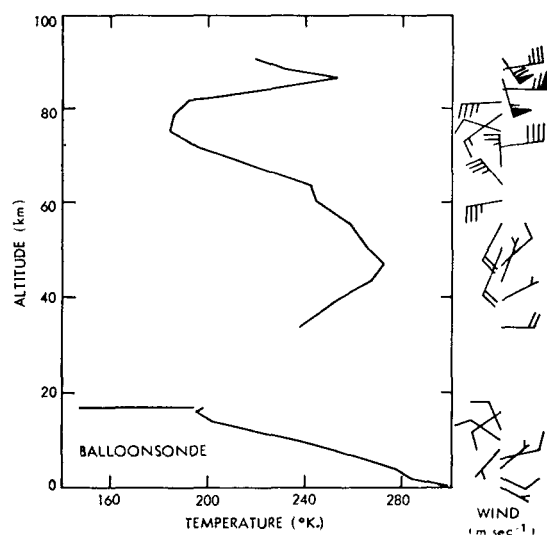
— 5 m/sec or less ▲ 50 m/sec
 | 10 m/sec DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
28000.00	.1580570	04	.2420374	01-	227.50	2.20-	3.47-
29000.00	.1363473	04	.2068553	01-	229.63	1.93-	3.69-
30000.00	.1177854	04	.1770519	01-	231.76	1.60-	3.82-
31000.00	.1018915	04	.1517654	01-	233.89	1.19-	3.89-
32000.00	.8826219	03	.1302779	01-	236.02	.72-	3.88-
33000.00	.7655810	03	.1119913	01-	238.15	.22-	3.23-
34000.00	.6649439	03	.9638231	02-	240.35	.23	2.52-
35000.00	.5783479	03	.8297509	02-	242.82	.65	1.96-
36000.00	.5037640	03	.7154465	02-	245.30	1.05	1.42-
37000.00	.4394265	03	.6178343	02-	247.78	1.42	.91-
38000.00	.3838434	03	.5343416	02-	250.26	1.77	.43-
39000.00	.3357521	03	.4628128	02-	252.73	2.10	.03
40000.00	.2940525	03	.4020020	02-	254.83	2.40	.60
41000.00	.2577736	03	.3505332	02-	256.19	2.64	1.41
42000.00	.2261376	03	.3058886	02-	257.55	2.80	2.14
43000.00	.1985292	03	.2671324	02-	258.91	2.89	2.78
44000.00	.1744174	03	.2334618	02-	260.27	2.90	3.35
45000.00	.1534094	03	.2029178	02-	263.38	2.88	3.19
46000.00	.1351422	03	.1766357	02-	266.54	2.89	3.04
47000.00	.1192328	03	.1540153	02-	269.70	2.91	2.91
48000.00	.1053229	03	.1351126	02-	271.57	2.95	2.61
49000.00	.9306481	02	.1196799	02-	270.90	3.02	2.92
50000.00	.8221160	02	.1059826	02-	270.24	3.05	3.20
51000.00	.7260473	02	.9382847	03-	269.58	3.04	3.46
52000.00	.6405595	02	.8397679	03-	265.74	2.93	4.84
53000.00	.5640040	02	.7528970	03-	260.97	2.63	5.99
54000.00	.4954553	02	.6736837	03-	256.21	2.17	6.70
55000.00	.4343416	02	.5987657	03-	252.71	1.59	6.78
56000.00	.3803675	02	.5257709	03-	252.03	1.00	5.65
57000.00	.3329952	02	.4615323	03-	251.35	.48	4.60
58000.00	.2914300	02	.4050162	03-	250.68	.02	3.62
59000.00	.2549698	02	.3553434	03-	249.97	.38-	2.71
60000.00	.2229960	02	.3116626	03-	249.27	.71-	1.87
61000.00	.1949659	02	.2732610	03-	248.56	.99-	1.10
62000.00	.1703071	02	.2413547	03-	245.83	1.24-	.85
63000.00	.1484998	02	.2138426	03-	241.93	1.49-	.62
64000.00	.1292024	02	.1891025	03-	238.03	1.75-	.38
65000.00	.1121594	02	.1668926	03-	234.12	2.01-	.14
66000.00	.9710818	01	.1475688	03-	229.25	2.31-	.29
67000.00	.8381808	01	.1301942	03-	224.28	2.68-	.42
68000.00	.7211207	01	.1145488	03-	219.31	3.13-	.48
69000.00	.6183039	01	.1004930	03-	214.35	3.67-	.49
70000.00	.5285236	01	.8738751	04-	210.70	4.26-	.16-
71000.00	.4506198	01	.7570589	04-	207.36	4.83-	.96-
72000.00	.3832253	01	.6543657	04-	204.02	5.38-	1.73-
73000.00	.3250573	01	.5642731	04-	200.69	5.90-	2.48-
74000.00	.2748746	01	.4873017	04-	196.51	6.42-	2.83-
75000.00	.2316012	01	.4198076	04-	192.19	7.00-	3.15-
76000.00	.1943930	01	.3604586	04-	187.88	7.63-	3.51-
77000.00	.1625183	01	.3082371	04-	183.68	8.31-	3.97-
78000.00	.1355107	01	.2589113	04-	182.33	8.91-	5.85-
79000.00	.1128456	01	.2172104	04-	180.99	9.30-	7.53-
80000.00	.9384846	00	.1819975	04-	179.64	9.46-	8.95-
81000.00	.7790583	00	.1530632	04-	177.32	9.62-	7.90-
82000.00	.6446204	00	.1294870	04-	173.43	10.08-	6.30-
83000.00	.5311293	00	.1091344	04-	169.55	10.92-	5.10-
84000.00	.4368486	00	.8940805	05-	170.22	11.91-	6.50-
85000.00	.3615696	00	.6965497	05-	180.84	12.34-	12.43-
86000.00	.3025281	00	.5504793	05-	191.46	11.83-	16.80-
87000.00	.2556280	00	.4399175	05-	202.44	10.44-	20.07-
88000.00	.2179480	00	.3556156	05-	213.51	8.21-	22.33-
89000.00	.1870715	00	.2955873	05-	220.48	5.30-	22.41-
90000.00	.1609050	00	.2555414	05-	219.36	2.11-	19.38-
91000.00	.1382983	00	.2207665	05-	218.24	.96	15.02-
92000.00	.1184929	00	.1962640	05-	210.33	3.49	8.16-
93000.00	.1009216	00	.1738524	05-	202.23	5.15	1.38-

FIGURE 41

NATAL, 2 OCTOBER 1966, 0220 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
92.26	20.83	4.90	237.81	.90	33743.60
59.19	5.01	6.29	252.03	1.14	39345.30
11.98	2.25	7.31	266.84	1.52	43557.45
42.08	11.02	2.01	271.89	.41	47070.60
204.56	20.94	3.68	265.45	.87	50499.05
212.21	20.30	4.80	258.20	1.12	55460.00
262.36	35.59	15.64	244.08	2.90	60279.95
323.87	34.25	11.45	241.53	3.33	63854.90
358.88	25.50	17.32	219.56	3.61	67811.70
85.58	38.35	16.00	195.50	2.57	71611.04
294.29	9.85	3.16	184.31	1.96	75272.30
230.04	13.76	10.97	185.52	2.83	78787.79
267.62	33.35	29.07	191.78	4.97	81710.19
91.30	63.14	19.08	226.54	3.91	84107.60
166.13	55.18	17.20	252.10	4.65	86438.35
78.60	36.85	28.37	230.49	5.77	88686.30
147.10	68.91	25.96	218.69	5.69	90800.50



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.00	.06	-17.11
40000.00	-2.51	-3.70
45000.00	-4.65	-3.30
50000.00	15.08	6.36
55000.00	17.35	10.62
60000.00	5.46	33.94
65000.00	-27.03	14.49
70000.00	-12.51	-21.81
75000.00	-3.85	6.26
80000.00	5.74	19.99
85000.00	21.41	-44.12
90000.00	33.19	-36.93

LEGEND

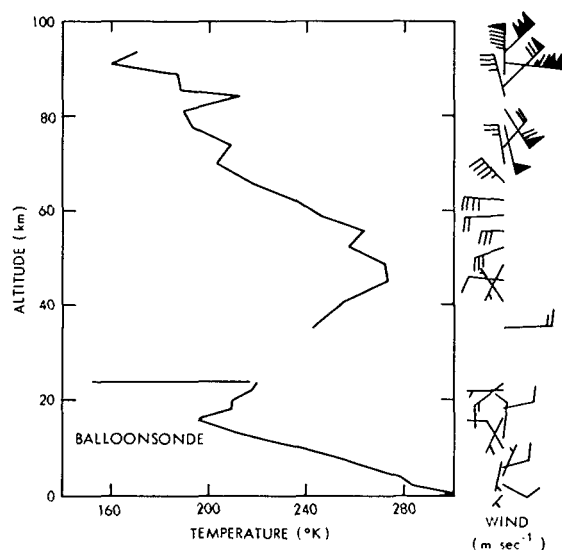
5 m/sec or less 50 m/sec
 10 m/sec DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)		
28000.00	.1569299	04	.2413732	01-	226.50	2.20-	3.74-
29000.00	.1352800	04	.2062806	01-	228.47	2.70-	3.95-
30000.00	.1167708	04	.1765760	01-	230.44	2.45-	4.10-
31000.00	.1009249	04	.1512875	01-	232.40	2.13-	4.20-
32000.00	.8734059	03	.1258248	01-	234.37	1.76-	4.22-
33000.00	.7567953	03	.1115546	01-	236.34	1.37-	3.60-
34000.00	.6565914	03	.9592580	02-	238.46	1.02-	2.98-
35000.00	.5704655	03	.8246505	02-	241.00	.71-	2.56-
36000.00	.4863895	03	.7100873	02-	243.53	.42-	2.16-
37000.00	.4325744	03	.6124148	02-	246.07	.15-	1.78-
38000.00	.3775122	03	.5290027	02-	248.61	.09	1.42-
39000.00	.3299287	03	.4576509	02-	251.15	.33	1.08-
40000.00	.2887944	03	.3955877	02-	254.33	.57	.99-
41000.00	.2532390	03	.3421564	02-	257.84	.83	1.00-
42000.00	.2224654	03	.2965359	02-	261.36	1.13	.98-
43000.00	.1957777	03	.2575000	02-	264.87	1.46	.92-
44000.00	.1725513	03	.2247492	02-	267.47	1.80	.50-
45000.00	.1522310	03	.1972221	02-	268.91	2.09	.30
46000.00	.1343987	03	.1731939	02-	270.34	2.32	1.04
47000.00	.1187382	03	.1522037	02-	271.78	2.49	1.70
48000.00	.1049014	03	.1352853	02-	270.14	2.54	2.74
49000.00	.9260565	02	.1202641	02-	268.26	2.51	3.42
50000.00	.8168273	02	.1068265	02-	266.38	2.38	4.02
51000.00	.7197063	02	.9474468	03-	264.71	2.17	4.47
52000.00	.6340355	02	.8370677	03-	263.25	1.88	4.75
53000.00	.5580349	02	.7426134	03-	261.79	1.54	4.55
54000.00	.4908129	02	.6568239	03-	260.33	1.21	4.03
55000.00	.4313940	02	.5805670	03-	258.86	.90	3.53
56000.00	.3788312	02	.5143067	03-	256.61	.60	3.35
57000.00	.3322475	02	.4562723	03-	253.68	.25	2.41
58000.00	.2909605	02	.4042407	03-	250.75	.14-	3.42
59000.00	.2544176	02	.3576483	03-	247.82	.59-	3.38
60000.00	.2221188	02	.3159790	03-	244.89	1.10-	3.28
61000.00	.1936993	02	.2770579	03-	243.56	1.67-	2.50
62000.00	.1688260	02	.2421882	03-	242.85	2.10-	1.20
63000.00	.1470938	02	.2116327	03-	242.14	2.42-	.41-
64000.00	.1280868	02	.1853690	03-	240.72	2.59-	1.59-
65000.00	.1113143	02	.1649001	03-	235.17	2.75-	1.05-
66000.00	.9641841	01	.1462884	03-	229.62	3.00-	.57-
67000.00	.8322641	01	.1294031	03-	224.06	3.37-	.18-
68000.00	.7157450	01	.1141865	03-	218.37	3.86-	.17
69000.00	.6129902	01	.1006899	03-	212.09	4.50-	.69
70000.00	.5225725	01	.8845769	04-	205.81	5.34-	1.05
71000.00	.4433160	01	.7740409	04-	199.53	6.37-	1.25
72000.00	.3743269	01	.6705462	04-	194.48	7.57-	.69
73000.00	.3149644	01	.5733717	04-	191.37	8.82-	.91-
74000.00	.2642821	01	.4890511	04-	188.26	10.03-	2.48-
75000.00	.2211207	01	.4160504	04-	185.15	11.21-	4.02-
76000.00	.1846851	01	.3486236	04-	184.56	12.24-	6.68-
77000.00	.1542498	01	.2906230	04-	184.90	12.97-	9.46-
78000.00	.1288780	01	.2423679	04-	185.25	13.37-	11.86-
79000.00	.1077410	01	.2018273	04-	185.97	13.40-	14.07-
80000.00	.9019913	00	.1670451	04-	188.11	12.98-	16.43-
81000.00	.7566936	00	.1385608	04-	190.25	12.22-	16.63-
82000.00	.6371015	00	.1132558	04-	195.97	11.13-	18.04-
83000.00	.5410175	00	.8954950	05-	210.47	9.26-	22.13-
84000.00	.4644794	00	.7192574	05-	224.97	6.34-	24.78-
85000.00	.4022195	00	.5929425	05-	236.32	2.49-	25.46-
86000.00	.3506418	00	.4939857	05-	247.29	2.18	25.34-
87000.00	.3065798	00	.4329456	05-	246.69	7.40	21.34-
88000.00	.2673035	00	.3927821	05-	237.08	12.56	14.22-
89000.00	.2318415	00	.3531050	05-	228.74	17.35	7.32-
90000.00	.2002146	00	.3125640	05-	223.15	21.80	1.40-

FIGURE 42

NATAL, 2 OCTOBER 1966, 0820 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
88.97	16.94	2.70	241.59	.43	35104.30
332.78	3.79	2.41	255.09	1.20	40828.15
281.16	10.69	9.51	273.36	2.14	45120.75
202.60	7.33	15.73	271.83	2.66	48707.60
246.40	31.93	15.21	257.17	2.92	52202.00
271.81	27.51	13.66	262.76	2.32	55598.40
265.71	21.38	9.65	245.30	1.65	53918.35
281.40	42.12	13.29	234.94	2.19	62146.55
323.45	45.17	7.59	217.41	1.47	65781.94
358.11	25.48	4.93	203.41	1.05	69812.24
37.63	21.93	11.09	208.45	2.09	73689.24
163.36	51.48	11.15	193.26	1.97	77422.35
146.87	70.09	11.45	189.34	1.79	81004.15
349.23	35.96	22.14	211.77	5.98	84016.10
45.19	72.24	29.93	188.43	4.88	86495.80
.23	93.01	15.34	186.55	2.85	88876.39
92.92	126.67	49.06	159.77	6.75	91178.05
48.46	148.18	133.23	169.92	20.48	93380.60



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.00	-2.92	-0.96
45000.00	-2.10	10.24
50000.00	8.99	12.59
55000.00	1.53	27.80
60000.00	-1.72	28.01
65000.00	-30.27	29.99
70000.00	-25.07	.15
75000.00	6.04	-13.86
80000.00	56.06	-31.70
85000.00	-41.50	-16.28
90000.00	-44.45	-61.95

LEGEND

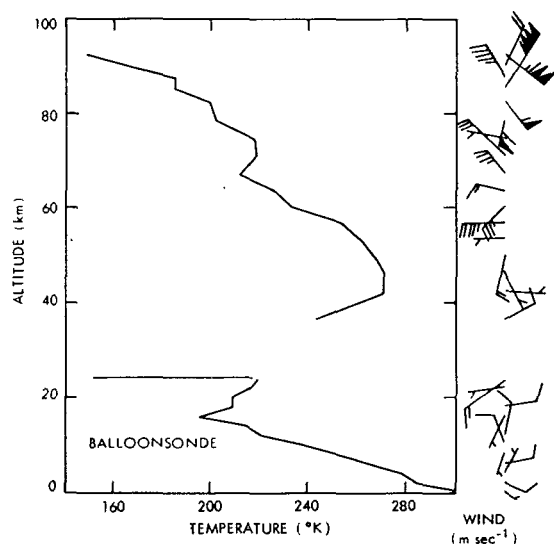
5 m/sec or less
 50 m/sec
 10 m/sec
 DIRECTION OF NORTH WIND ↓

HEIGHT meters	PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
29000.00	.1390673	04	.2109019	01-	229.72	.01	1.80-
30000.00	.1201347	04	.1806612	01-	231.66	.36	1.86-
31000.00	.1039112	04	.1549639	01-	233.61	.76	1.87-
32000.00	.8999082	03	.1330968	01-	235.55	1.22	1.81-
33000.00	.7803085	03	.1144635	01-	237.49	1.69	1.09-
34000.00	.6774209	03	.9856422	02-	239.44	2.11	.31-
35000.00	.5887978	03	.8477981	02-	241.38	2.47	.40
36000.00	.5124213	03	.7325388	02-	243.70	2.78	.93
37000.00	.4465629	03	.6322704	02-	246.05	3.07	1.39
38000.00	.3896965	03	.5465166	02-	248.41	3.33	1.83
39000.00	.3405240	03	.4730644	02-	250.77	3.55	2.24
40000.00	.2979445	03	.4100551	02-	253.13	3.76	2.62
41000.00	.2610452	03	.3555006	02-	255.82	3.94	2.85
42000.00	.2291319	03	.3069325	02-	260.07	4.16	2.48
43000.00	.2015544	03	.2656431	02-	264.33	4.45	2.21
44000.00	.1776666	03	.2304484	02-	268.59	4.82	2.01
45000.00	.1569270	03	.2003716	02-	272.84	5.24	1.90
46000.00	.1387536	03	.1770770	02-	272.98	5.64	3.30
47000.00	.1226806	03	.1568101	02-	272.55	5.89	4.78
48000.00	.1084525	03	.1388414	02-	272.13	6.01	5.44
49000.00	.9583582	02	.1233827	02-	270.60	6.08	6.10
50000.00	.8457840	02	.1106046	02-	266.40	6.01	7.70
51000.00	.7449836	02	.9898182	03-	262.21	5.73	9.14
52000.00	.6548806	02	.8842540	03-	258.01	5.23	10.39
53000.00	.5751659	02	.7752151	03-	258.48	4.66	9.14
54000.00	.5054412	02	.6769242	03-	260.12	4.23	7.21
55000.00	.4445492	02	.5916255	03-	261.77	3.98	5.50
56000.00	.3910584	02	.5226868	03-	260.65	3.84	5.03
57000.00	.3434711	02	.4685374	03-	255.39	3.64	6.19
58000.00	.3008734	02	.4190601	03-	250.13	3.26	7.21
59000.00	.2628412	02	.3736970	03-	245.03	2.69	8.02
60000.00	.2290983	02	.3300458	03-	241.82	2.00	7.88
61000.00	.1993297	02	.2910228	03-	238.61	1.22	7.67
62000.00	.1731100	02	.2561879	03-	235.40	.37	7.05
63000.00	.1499915	02	.2263849	03-	230.82	.50-	6.52
64000.00	.1295832	02	.1997556	03-	226.00	1.46-	6.04
65000.00	.1116241	02	.1757916	03-	221.17	2.49-	5.48
66000.00	.9581808	01	.1540809	03-	216.64	3.61-	4.72
67000.00	.8203585	01	.1340670	03-	213.17	4.75-	3.41
68000.00	.7006055	01	.1163922	03-	209.70	5.89-	2.10
69000.00	.5967889	01	.1008143	03-	206.23	7.02-	.81
70000.00	.5071810	01	.8676077	04-	203.65	8.12-	.88-
71000.00	.4308316	01	.7323246	04-	204.95	9.01-	4.19-
72000.00	.3663718	01	.6188298	04-	206.25	9.54-	7.07-
73000.00	.3118896	01	.5235045	04-	207.55	9.71-	9.53-
74000.00	.2656180	01	.4466308	04-	207.18	9.57-	10.94-
75000.00	.2258291	01	.3873352	04-	203.12	9.32-	10.65-
76000.00	.1913807	01	.3349619	04-	199.04	9.06-	10.34-
77000.00	.1616419	01	.2888172	04-	194.98	8.80-	10.02-
78000.00	.1361506	01	.2462402	04-	192.62	8.48-	10.45-
79000.00	.1145091	01	.2082844	04-	191.53	7.96-	11.33-
80000.00	.9621718	00	.1760196	04-	190.43	7.18-	11.94-
81000.00	.8077047	00	.1486166	04-	189.34	6.30-	10.57-
82000.00	.6800029	00	.1204047	04-	196.75	5.14-	12.87-
83000.00	.5761859	00	.9830035	05-	204.20	3.36-	14.52-
84000.00	.4911502	00	.8084348	05-	211.65	.96-	15.46-
85000.00	.4184083	00	.7197905	05-	202.51	1.43	9.51-
86000.00	.3537670	00	.6382909	05-	193.09	3.10	3.53-
87000.00	.2972686	00	.5507686	05-	188.03	4.14	.06
88000.00	.2491177	00	.4635016	05-	187.24	4.90	1.22
89000.00	.2084885	00	.3923720	05-	185.11	5.53	2.98
90000.00	.1732959	00	.3480208	05-	173.47	5.42	9.78
91000.00	.1422141	00	.3061399	05-	161.83	3.82	17.83
92000.00	.1160226	00	.2471350	05-	163.55	1.33	15.64
93000.00	.9502776	01-	.1968648	05-	168.16	.98-	11.66

FIGURE 43

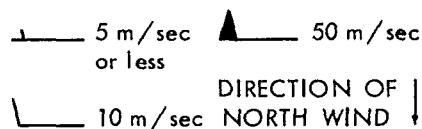
NATAL, 2 OCTOBER 1966, 1409 GMT.

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (\pm)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (\pm)	HEIGHT meters
63.51	9.39	1.75	242.64	.36	36482.65
95.01	5.45	2.50	270.75	.51	42180.50
150.03	7.36	5.78	271.03	1.15	46490.75
195.73	15.61	6.93	266.72	1.82	50049.60
268.45	5.48	4.59	261.99	1.95	53519.15
269.23	44.30	8.13	253.81	1.60	56900.70
234.89	35.22	12.23	233.79	2.97	60197.55
287.78	13.10	9.11	226.91	3.30	63425.60
328.76	35.86	9.49	212.16	2.54	67072.90
318.41	31.50	11.08	218.76	3.11	71092.65
280.58	3.02	9.21	218.38	2.61	74953.49
196.77	60.72	11.02	202.58	3.02	78687.55
142.03	53.30	33.43	199.89	6.99	82271.20
34.63	159.37	39.07	185.91	9.02	85261.35
335.52	44.25	18.79	185.96	6.50	87711.14
20.98	17.66	30.90	166.18	7.00	90072.99
124.05	113.44	52.19	149.02	7.97	92361.99



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
40000.00	-1.30	-6.56
45000.00	4.33	-4.28
50000.00	14.83	4.38
55000.00	.34	22.47
60000.00	19.07	29.73
65000.00	-15.51	15.11
70000.00	-25.49	20.28
75000.00	.17	3.15
80000.00	52.23	-.90
85000.00	-116.00	-85.51
90000.00	-17.22	-5.55

LEGEND



HEIGHT meters	PRESSURE n/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin	PRESSURE deviation (%)	DENSITY deviation (%)
20000.00	.1388663	04	.2112643	01-	228.99	.12-	1.63-
30000.00	.1194011	04	.1809710	01-	230.81	.16	1.70-
31000.00	.1036503	04	.1552175	01-	232.64	.50	1.71-
32000.00	.8670088	03	.1332944	01-	234.46	.90	1.66-
33000.00	.7773162	03	.1146080	01-	236.28	1.30	.97-
34000.00	.6743123	03	.9865995	02-	238.11	1.64	.21-
35000.00	.5856182	03	.8503201	02-	239.93	1.91	.47
36000.00	.5091555	03	.7337218	02-	241.75	2.13	1.09
37000.00	.4433637	03	.6299673	02-	245.18	2.33	1.02
38000.00	.3869923	03	.5399220	02-	250.12	2.61	.44
39000.00	.3387010	03	.4626322	02-	255.05	3.00	.00-
40000.00	.2972059	03	.3982492	02-	259.99	3.50	.33-
41000.00	.2614466	03	.3438072	02-	264.92	4.10	.53-
42000.00	.2305437	03	.2976256	02-	269.86	4.80	.62-
43000.00	.2035803	03	.2619007	02-	270.80	5.50	.77
44000.00	.1798217	03	.2312806	02-	270.87	6.09	2.38
45000.00	.1588445	03	.2042515	02-	270.93	6.53	3.87
46000.00	.1403241	03	.1803938	02-	270.99	6.84	5.24
47000.00	.1239526	03	.1596925	02-	270.41	6.99	6.71
48000.00	.1094501	03	.1416437	02-	267.20	6.99	7.57
49000.00	.9659403	02	.1255717	02-	267.38	6.92	7.99
50000.00	.8520303	02	.1112669	02-	266.77	6.79	8.35
51000.00	.7511279	02	.9859096	03-	265.42	6.60	9.71
52000.00	.6617728	02	.8731076	03-	264.05	6.34	9.00
53000.00	.5826885	02	.7727564	03-	262.69	6.03	8.79
54000.00	.5126721	02	.6847776	03-	260.82	5.72	8.46
55000.00	.4506103	02	.6075156	03-	258.40	5.40	8.34
56000.00	.3955960	02	.5383860	03-	255.98	5.05	8.19
57000.00	.3468524	02	.4772333	03-	253.20	4.66	8.16
58000.00	.3034185	02	.4277298	03-	247.13	4.13	9.47
59000.00	.2645528	02	.3823345	03-	241.06	3.36	10.52
60000.00	.2298703	02	.3407952	03-	234.98	2.34	11.40
61000.00	.1992057	02	.2990348	03-	232.08	1.16	10.63
62000.00	.1723703	02	.2611480	03-	229.95	.05-	9.12
63000.00	.1489553	02	.2277845	03-	227.82	1.19-	7.18
64000.00	.1285054	02	.1993379	03-	224.58	2.28-	5.82
65000.00	.1106003	02	.1747105	03-	220.54	3.37-	4.83
66000.00	.9493031	01	.1527596	03-	216.49	4.50-	3.82
67000.00	.8124993	01	.1332352	03-	212.45	5.66-	2.77
68000.00	.6947324	01	.1132684	03-	213.68	6.68-	.63-
69000.00	.5946866	01	.9621698	04-	215.32	7.35-	3.78-
70000.00	.5096748	01	.8183788	04-	216.96	7.67-	6.50-
71000.00	.4373452	01	.6969605	04-	218.61	7.63-	8.82-
72000.00	.3755254	01	.5982730	04-	218.67	7.28-	10.15-
73000.00	.3224494	01	.5139475	04-	218.57	6.65-	11.18-
74000.00	.2768706	01	.4415004	04-	218.47	5.74-	11.96-
75000.00	.2377133	01	.3795661	04-	218.18	4.54-	12.44-
76000.00	.2037778	01	.3318152	04-	213.95	3.17-	11.18-
77000.00	.1741586	01	.2893075	04-	209.72	1.74-	9.87-
78000.00	.1483762	01	.2515540	04-	205.49	.26-	8.52-
79000.00	.1260516	01	.2170261	04-	202.34	1.31	7.61-
80000.00	.1069233	01	.1847793	04-	201.59	3.14	7.56-
81000.00	.9064655	00	.1572373	04-	200.84	5.15	5.39-
82000.00	.7680398	00	.1337266	04-	200.08	7.13	3.23-
83000.00	.6495990	00	.1151822	04-	196.48	8.95	.15
84000.00	.5474909	00	.9944205	05-	191.80	10.39	3.98
85000.00	.4595155	00	.8554695	05-	187.13	11.39	7.53
86000.00	.3846372	00	.7207241	05-	185.92	12.09	8.92
87000.00	.3218076	00	.6029389	05-	185.94	12.74	9.54
88000.00	.2689347	00	.5104825	05-	183.53	13.25	11.48
89000.00	.2235457	00	.4446102	05-	175.16	13.15	16.69
90000.00	.1841530	00	.3846490	05-	166.79	12.02	21.34
91000.00	.1502817	00	.3288029	05-	159.23	9.71	26.56
92000.00	.1214470	00	.2788412	05-	151.73	6.07	30.48